The American Artisan
And Hardware Record

Vol. 52. No. 3. CHICAGO, JULY 21, 1906. $2.00 Per Year.

COLUMBUS BOLT WORKS,
COLUMBUS, OHIO.
Bolts, Rivets, Nuts, Washers, Carriage Forgings, Etc.
CATALOG AND PRICES ON APPLICATION.

"American Seal"
Elastic Oil Roof Cement
Asbestos Furnace Cement
Stove Putty
Stove Lining
The very best made!
Sold by:
Perkins Roofing & Supply Co., Western Agents,
235 Lake Street, CHICAGO, ILL.
Rockhoff Supply Co., Southwestern Agents,
ST. LOUIS, MO.

TRYING to do business without advertising is like winking at a girl in the dark: you know what you are doing but nobody else does.

THE WIZARD
ADJUSTIBLE FLEXIBLE HANGER

NO Special Track Required.

Lateral or Vertical Adjustment

Swing Out and Stay On Features

and door may be placed as close to building as desired.

Each pair packed in individual box, complete with bolts and nuts.

See your jobber or write us.
SAFETY DOOR HANGER CO.,
Ashland, Ohio Hamilton, Ont.

GARLAND NUT & RIVET CO. PITTSBURGH

SMALL RIVETS
FOR ALL PURPOSES

SELECTED MATERIAL
UNIFORMITY
GOOD APPEARANCE
SQUARE CUT-OFF
QUICK SHIPMENTS

SMALL BOLTS
AND
PUMP CHAIN

GARLAND NUT & RIVET CO.
PITTSBURGH, PA.

BLACK DIAMOND FILES and RASPS

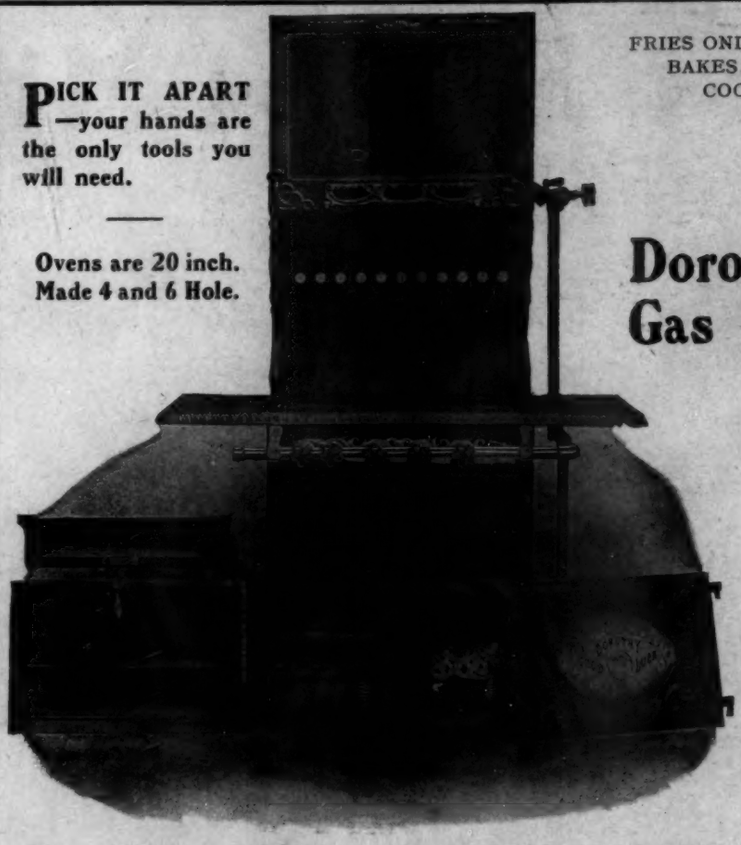
PERFECT—ALWAYS

Twelve Medals Awarded at International Expositions
Copy of Catalogue will be sent free to any interested file user upon application.

G. & H. BARNETT COMPANY
Black Diamond File Works PHILADELPHIA

"TRIUMPH" CHAIN
HAS TWICE THE STRENGTH OF WELDED.
SEND FOR FREE SAMPLES, TABLE OF TESTS AND ASK QUESTIONS.

THE BRIDGEPORT CHAIN CO., Bridgeport, Conn.
OVER TEN MILES OF CHAIN PER DAY. WE LEAD.



PICK IT APART —your hands are the only tools you will need.

Ovens are 20 inch. Made 4 and 6 Hole.

FRIES ONIONS WITHOUT ODOR.
BAKES GRIDDLE CAKES WITHOUT SMOKE.
COOKS SAUER KRAUT "IN SILENCE."
BOILS CABBAGE "IN CONFIDENCE."

The Flue System in a

Dorothy Good Luck Gas Range

is so complete and the construction so ingenious that all the disagreeable conditions, contingent upon the preparation of any food, are removed.

Some of the things it will do:

Bakes Griddle Cakes and Broil with Same Fire.
Bake Cakes, Pies and Bread and Broil " " "
Heats Water and Cooks " " "
Has Special Burners for Slow Cooking.
" " " " Fast "

"Draw Out" Ovens—Wash them at Sink.
"Lift Out" Burners— " " " "
Removable Broiler— " it " "
Flues as easily cleaned as a Lamp.

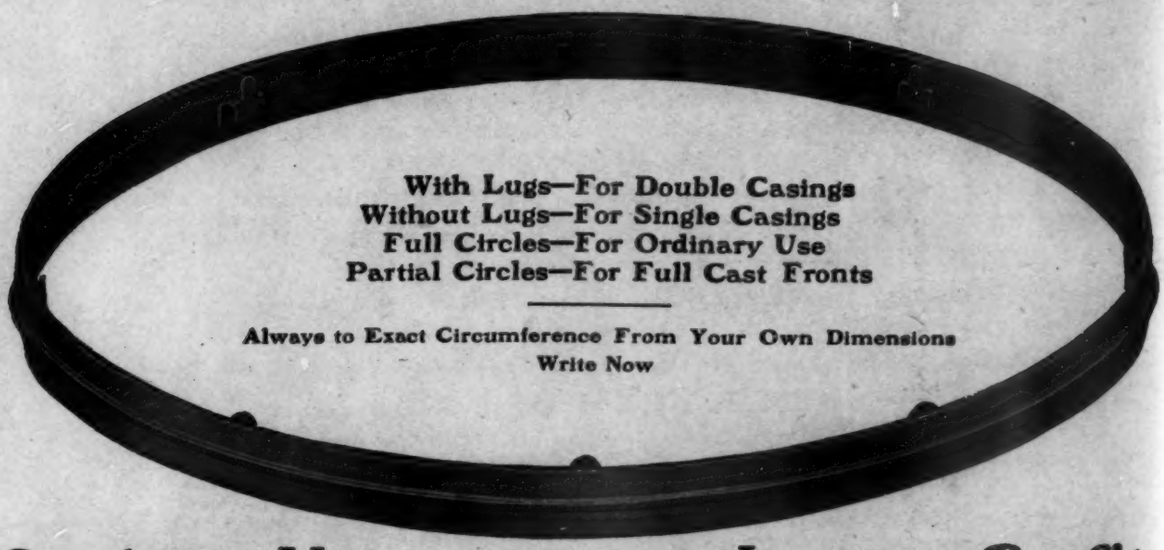
Prices Right. They Sell on Sight.
ASK US ABOUT THEM.

Pittsburgh Stove and Range Company, Pittsburgh, Pa.

STEEL CASING RINGS

Are Made to Conform to Individual Requirements in Every Respect

Never Break —— *Circles Perfect*



Ready to Use —— *Increase Profits*

THE WALWORTH RUN FOUNDRY CO., 27th St., S. W., Cleveland, O.

Makers of Fine Grey Iron Castings — Mfrs. of Semi-Steel Registers

MASTER ECONOMY

(PATENTED)

There is a distinct advantage in having the exclusive sale of a perfect heater that is a rapid and increasing seller that is so carefully and completely covered by strong patents that there is no danger that its duplicate under some other name will be shown on the floor of his competitor's store.

Under these conditions you can afford to work for the heater and do your utmost to build up a trade on it.

There is no heater in the world at all like the Master Economy and it is so completely protected by patents that there is no chance of its being duplicated or imitated.

"AND THAT HELPS SOME"

And this is what you may expect from it and guarantee for it:

¶ 2⅓ times as much radiating surface and naturally 2½ times as much heat as any oak stove of the same size.

¶ A distribution of heat equally throughout a room or several connecting rooms.

¶ Economy of fuel. It burns up the soot and smoke and utilizes all the heat elements of the fuel, leaving the interior and the mica front practically clean and sootless, and it burns hard coal, soft coal or coke.

¶ It is built to stand the enormous heat and to wear and to last.

¶ Tight ground fittings, perfect mounting and intelligent designing make it a perfect fire keeper.

¶ It responds promptly and absolutely to its regulating devices and responds readily to the will of its operator.

¶ As an extreme proposition you may lay your hands upon it at one minute and be anxious to run away from it the next.

¶ A splendid looker. Artistic iron work. Lots of nickel and fine nickel work, too. An ornament anywhere.

Reliable in every way. A Ready Seller—and a buyer brings other buyers

IT IS ALL RIGHT

The Agency is worth having. Send for booklet.

COMSTOCK-CASTLE STOVE CO.

QUINCY, ILL.

. . . AIR TIGHT . . .
WOOD HEATERS

Four Sizes Two Styles

Stamped Top and Swing Cover

Perfectly Fitted Double Seamed Joints, absolutely Air Tight and cannot pull apart.

Body has Steel lining, extending nearly to the top of Stove.

All parts are made with dies and machinery, therefore all parts are exactly alike and are bound to fit.

Price Right, Stoves are Right. Designs different and distinct from other makes.

Our COMFORT AIR TIGHT WOOD HEATER will suit you and please your customer.
Our Factory is especially equipped for making Sheet Steel Stoves and we furnish you a well made Stove for no more money than you will have to pay for a poorly fitted Stove.

QUICK STEEL HEATERS FOR COAL
ARE NOW READY

RINGEN STOVE CO.
DIV. OF AMERICAN STOVE CO.

ST. LOUIS, MO.

San Francisco, Cal.
115-121 Townsend St.

Portland, Ore.
4th and Davis Sts.

DON'T WONDER

why the heating system does not prove satisfactory. In most cases the furnace itself is at fault.

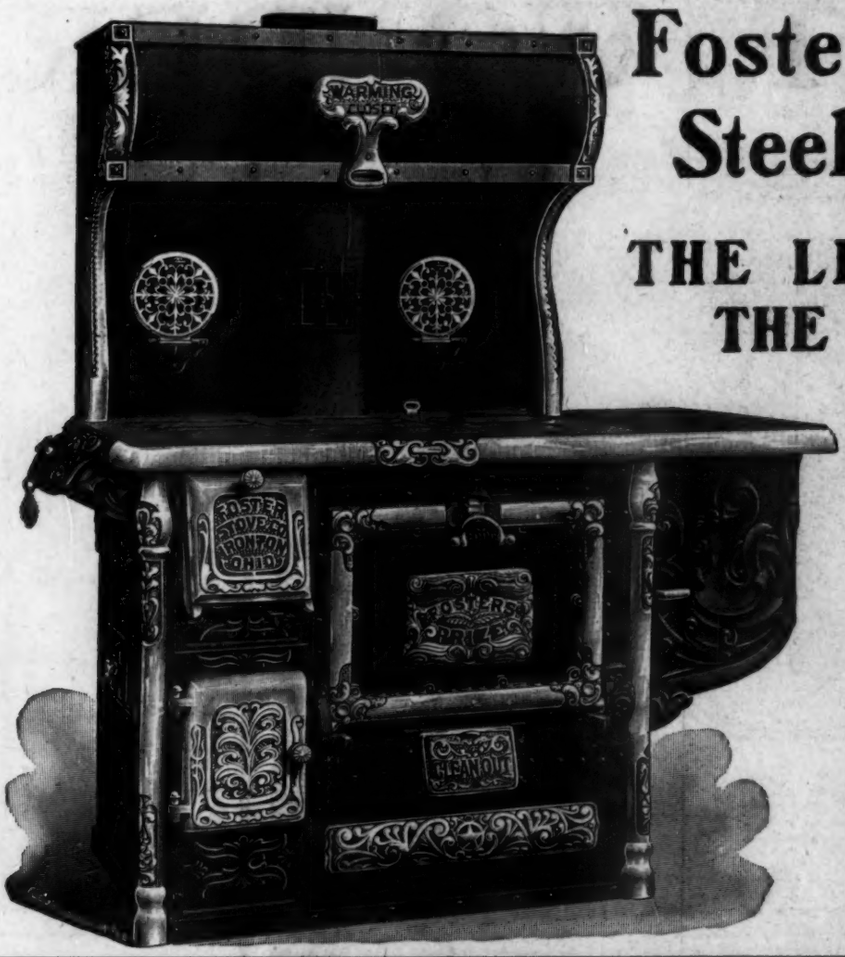
THE MUELLER

all cast double radiator furnace gives satisfaction in every instance. The reason is plain.—It is built on the proper plan, is properly proportioned, and above all things **POSSESSES A GREATER AMOUNT OF DIRECT HEATING SURFACE** than any other heater. It is **THE** Furnace for you to handle. Don't delay—write to-day for catalogue and prices.

L. J. MUELLER FURNACE CO., 191 Reed St., MILWAUKEE

ESTABLISHED 1857

Branch Offices and Warehouses at CHICAGO, KANSAS CITY, MINNEAPOLIS, SEATTLE



Foster's Prize Steel Range

THE LEADER OF THE SEASON

It embodies all late improvements looking to quality and efficiency, yet can be sold at comparatively low prices. It will pay the dealer to order a sample and consider agency.

WRITE FOR CATALOG

The FOSTER STOVE CO.
IRONTON, OHIO

MAGEE COTTAGE Smoke, Gas and Dust Tight Furnace

With Wrought or Cast Iron Radiators

CONSTRUCTION AND SPECIAL FEATURES

By the users of **MAGEE COTTAGE FURNACES** the satisfaction they give is never considered in detail,—for no detail can be criticised,—but simply as satisfaction complete and absolute. Yet this is so because every detail in design and construction has been perfected. There are few joints, and at these the castings are perfectly fitted. Fire Pot is in two pieces with straight sides, heavy and durable. The products of combustion make a complete circuit of Radiator before passing to smokepipe. Air circulates in direct contact with Fire Pot, Combustion Chamber, and in and about Radiator, becoming thoroughly heated before reaching Hot Air Pipes. Feed Section, Grate and Ash Pit operate with convenience, cleanliness, and are of great durability.

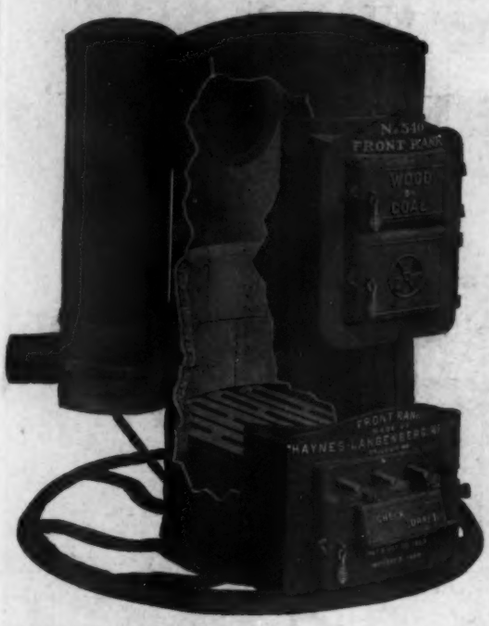
MADE IN SIX SIZES

MAGEE FURNACE CO.,
38 Union Street, BOSTON, MASS.

Prompt shipments can be made by the Western Agency

THE LOTT-BURTON COMPANY,
86 E. Lake Street, - CHICAGO

FRONT RANK STEEL FURNACES



are the peer of all Steel Heaters

NO DEALER SHOULD BE WITHOUT THEM

Front Rank Furnaces have been on the market for nearly twenty years, and at present, are being sold in every State in the Union where furnaces are used. **We guarantee them** to burn hard or soft coal, wood or coke, besides which **Any Hot-Water** combination can be used in the **Front Rank**

Write for Our 1906 Catalogue.

Handsomely illustrated—containing pertinent and pithy furnace facts.

HAYNES-LANGENBERG MFG. CO.

ST. LOUIS, MO.

RICHARDSON & BOYNTON CO.

Manufacturers

Warm Air Furnaces

Hot Water and Steam Boilers

Tank and Laundry Heaters

SEND FOR LATEST CATALOGUE

NEW YORK CHICAGO BOSTON

BOYNTON

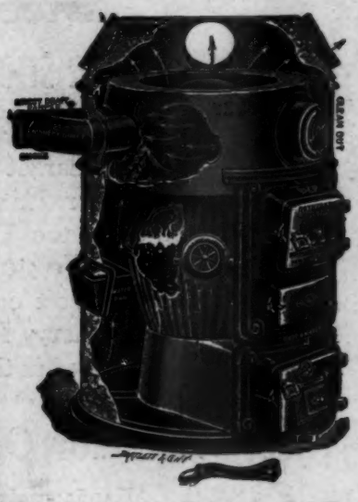
Oldest firm in the business with goods up-to-date—Best on the market

FURNACES

All Kinds

Made of Cast or Wrought Iron or both.

Portable or Brick Set

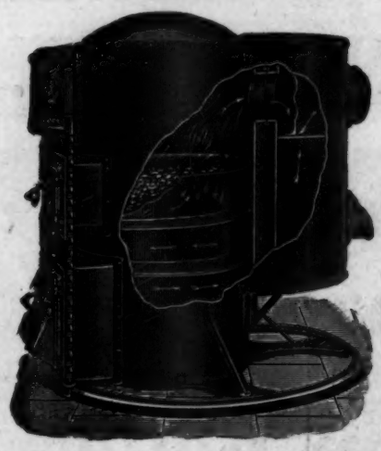


Best Known Made Assortment Terms Seller

Send for Catalogue on Heaters and Furnaces.

The Boynton Furnace Company

147-149 Lake St., CHICAGO 207-209 Water St., NEW YORK



The Highest Evidence of Superiority

-: OF :-

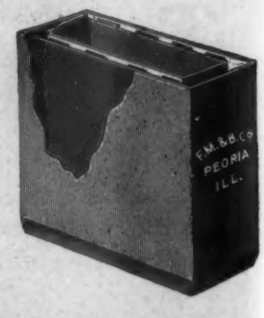
"The WEIR" Warm Air Furnace

is in the fact that it has been more widely imitated than all other furnaces put together

MEYER FURNACE CO. PEORIA ILL.

We call it the **Handy Furnace Pipe** because it is so **easily fitted.** The handy pipe is made in **scientific** patterns and of the **best material.** We make Square and Round Furnace Pipe, Elbows, Asbestos Pipes and Registers.

Large Stock Constantly on Hand. Prompt Deliveries.



F. MEYER & BRO. CO., Peoria, Ill.

VAN'S RANGE

Patent Improved Wrought Steel Portable

For Hotels, Restaurants, Public Institutions, Boarding Houses, and Private Families. All kinds of Hotel Implements for culinary purposes. Manufactured and for sale by

The John Van Range Company

Southwest Corner
5th and Broadway

CINCINNATI, - - - - - OHIO

THE

"BIG FOUR ROUTE"

passes through an interesting Country every mile of the way

CHICAGO TO
INDIANAPOLIS
CINCINNATI
LOUISVILLE
and all points
SOUTH
AND
SOUTHEAST

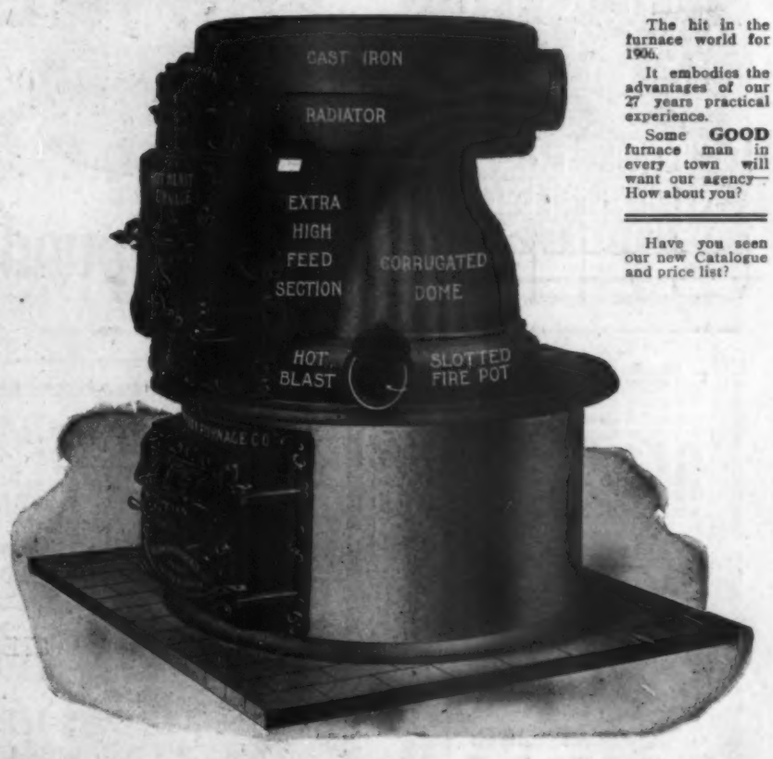
Buffet Parlor Cars or Dining Cars on day trains, and Pullman's finest Compartment and Standard Sleepers on night trains. All trains run solid, Chicago to Cincinnati. The only line from Chicago connecting in the Central Union Depot, Cincinnati, with C. & O., Q. & C., L. & N. and B. & O. S. W. Rys. For reservations, etc., call on or address

I. P. SPINING, G. N. A.
238 Clark Street - - - CHICAGO

Southnek & McElrath,
Moville, Iowa, write:

"Please take out our Want Advertisement. We have too many letters to answer."

ROBINSON HOT BLAST



The hit in the furnace world for 1906.

It embodies the advantages of our 27 years practical experience.

Some **GOOD** furnace man in every town will want our agency—How about you?

Have you seen our new Catalogue and price list?

Robinson Furnace Co., Established 1879 **107-109 Lake St., CHICAGO**

BOOMER FURNACES

aren't like other Furnaces.

BOOMER Furnaces are heavy—but the weight is in the firepot and dome; they are powerful heaters—but easily controlled; they burn very little coal—but give maximum amount of heat; they will give your customers absolute satisfaction—but are sold at reasonable prices.

Why not sell the BOOMER Furnace?

Ask for our interesting catalogue and discounts—to-day.

We have an attractive proposition to offer live furnace dealers in unoccupied territory.

We also make Boomer Steel Ranges

The HESS-SNYDER COMPANY

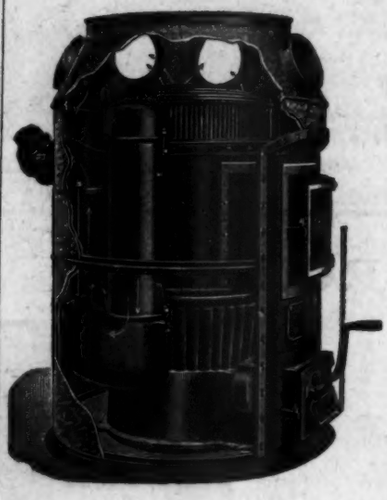
Manufacturers Massillon, Ohio

HEAT LIGHT FOR THE HOME STORE HOTEL SCHOOL CHURCH OFFICE COLLEGE THEATRE FACTORY VILLAGE

INFORMATION FREE SEND FOR IT.

DETROIT HEATING AND LIGHTING CO. DETROIT MICH.

Floral City Furnaces



were designed to meet the demand for a heater that would burn hard coal, soft coal and wood equally well. Some important changes have recently been made and it will be to your advantage to secure our latest catalog.

Tireless care, skilled workmanship and perfect castings unite in making these furnaces reliable.

Monroe Foundry & Furnace Co.

MONROE, - MICHIGAN.

MONCRIEF

Warm Air Furnaces

Combine SIMPLICITY, DURABILITY, ECONOMY and CLEANLINESS IN USE

SPECIALTIES
- All Cast Iron
- Moncrief Duplex Grate
- Large Radiating Surface
- Top Return Flue
- Double Fire Pot
- Large Grate Surface

HENRY & SCHEIBLE CO.

6-8-10 Long Street, CLEVELAND, O.

Sales Agent—J. C. KIMMEL, 3314 East 15th Street, Kansas City, Missouri

THE QUESTION OF PROFIT

There is no surer way of increasing your profits than by using a furnace that saves coal for your customer.

You can be sure of this by using the celebrated "THATCHER" Tubular Furnace.

There is no question about it.

Its unique tubular heating surface is one of the greatest fuel saving features in modern furnace construction.

If you have a particular job now—let us quote you a price on a "Tubular" for it.

THATCHER FURNACE CO.,

110-112-114-116 BEEKMAN STREET
NEW YORK

THE NEW

LION FURNACE

Now Ready for the Trade

Can Use Hard or Soft Coal

Simple in Construction

and a Successful Heater.

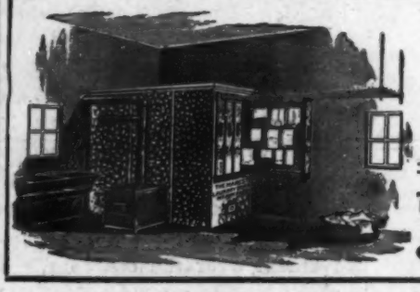
Our Catalogue gives you full information.

Write for it TO-DAY

YOUNGSTOWN FURNACE & SUPPLY COMPANY
YOUNGSTOWN, OHIO

Address all western inquiries to our Western Distributors, COOK & VAN EVERA, 38-40 Lake St., Chicago, or to ROOD & McINTYRE, Kansas City, Mo., our Distributors in Southwest.

The "Manest" Family Clothes Dryer



A Laundry Stove and Drying Cabinet Combined.

One fire boils the clothes, dries the clothes and heats the irons. Good profits to agents.

THE MANNEN & ESTERLY COMPANY
Successors to MANNEN & ESTERLY
CLEVELAND, OHIO

There Are No Better

FURNACES

Than those made by the

GRAFF FURNACE CO.

of New York City

In successful use for 25 Years.

Largest variety of styles and sizes.

For Western trade we have established a warehouse and sales agency at

Decatur, Ill.

C. M. BARNETT
SALES AGENT

The American Furnace

Combines DURABILITY, EFFICIENCY and ECONOMY—while as regards LARGE SALES there is no better furnace on the market

THE AMERICAN FURNACE supplies, correspondingly, considerably more heat with a given amount of fuel than any other furnace.

Write for Particulars

American Furnace Co.,

ST. LOUIS, MO.

PROGRESSIVE DEALERS

Stanton Upright Steel

Notwithstanding the fact that Manufacturers who are not equipped for making a steel Furnace are using every effort to prevent it, progressive dealers are rapidly getting in line with the fact that STEEL FURNACES when properly constructed are a great improvement over the old cast iron kind.

We are pioneers in the manufacture of Steel Furnaces, and our long experience puts us in position to offer you the best.

Write for prices and description of our full line.

THE STANTON HEATER CO.

MARTINS FERRY, OHIO

Wabash Excursions

FROM CHICAGO

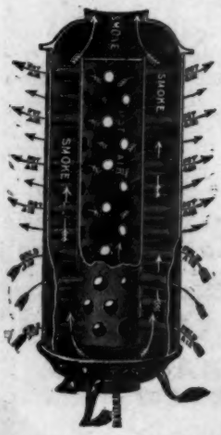
$14.40	**TORONTO and Return.** On sale daily.
$20.00	**MONTREAL and Return.** On sale daily.
$21.00	**CONCORD and Return.** On sale June 15 to 30, and July 18; Aug. 8 & 22; Sept. 5 & 19.
$22.50	**PORTLAND, Me., and Ret.** Selling dates same as to Concord.
$21.00	**RUTLAND, Vt., and Return.** Selling dates same as to Concord.

Proportionate rates to many other points in Canada and New England.

For complete details as to stop-overs, etc., address

F. H. TRISTRAM,
Assistant General Passenger Agent,
97 Adams Street, CHICAGO.

THE AMERICAN ARTISAN Want Ads fill your wants.



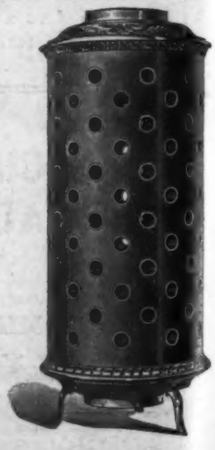
Save ½ Your Fuel

BY USING THE

ROCHESTER RADIATOR

Satisfaction guaranteed or money refunded.
Over 100,000 of them in use.
Fits any stove or furnace.
Price from $2.00 to $12.00.
We make the original and genuine "ROCHESTER RADIATOR."
We do not sell to catalogue houses.
For Hard or Soft Coal, Wood or Gas.
We refer all inquiries, to you from your town, when you carry a stock of our Radiators.
We guarantee our radiators not to interfere with or choke the draught, they are easily cleaned.
One square inch of radiating surface directly over the hot current is better than six in a drum, or side heater, with perpendicular tubes.
Write for descriptive catalogue and prices.

ROCHESTER RADIATOR CO., 120 Furnace St., Rochester, N. Y.



An Avalanche of Facts

Attesting the recognized superiority of the celebrated ACME Gas Stoves and Ranges prominent among them stands the fact that we have taken the initiative in originating distinct methods of construction. Others copy, but cannot equal. We lead where many seek to follow. Every ACME Gas Stove or Range will stand for manufacturing supremacy.

H. ADLER CO., Carnegie, Pa.

Western Office and Warehouse:
1225 W. 10th St., KANSAS CITY, MO.

Manufacturers of
ACME GAS APPLIANCES

The Gilt Edge Badger Furnace

is designed to give

Greatest Efficiency and Economy Possible

This is accomplished largely in giving it a high dome and a large radiating surface. Other furnaces of somewhat similar form have radiators not more than 16" in height; this furnace embodies one from 20" to 24". The combustion chamber is exceedingly large, as the body, containing the coal spout, is comparatively small. The products of combustion liberated are, therefore, compelled to ignite and burn before passing into the radiator, thus utilizing a great amount of heat that is otherwise wasted.

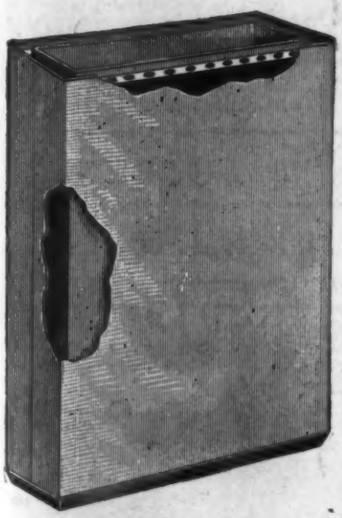
For Hard Coal Exclusively

Many other unique features will be discovered by a perusal of

our catalogue, which is sent free.

R. J. SCHWAB & SONS CO.
THE FURNACE MEN
MILWAUKEE :: :: :: :: WISCONSIN

GREEN FURNACE PIPE



Our Double and Single Furnace Pipe and Fittings are easily and quickly put together because they are perfectly made by skilled mechanics. We would suggest that you find out the freight rate on this class of goods from Des Moines to your station and compare it with that from any competing point. We have an immense stock and can always ship your orders promptly. We shall be glad to receive your request for our catalogue and discounts.

Green Foundry & Furnace Works
DES MOINES, IOWA

The Champion
Hot Water Combination Boilers
"They Fit Any Furnace"

(Base section when used without ring sections)

Combination heating for residence or buildings excells all others. The **Champion** boilers are adapted for the use of **all kinds** of fuel, and are tested to 100 pounds hydraulic pressure before leaving factory. They are **guaranteed** not to leak.

The Champion will increase the heating capacity of any furnace, and reduce coal bills as well. They will increase the business of every dealer who handles them.

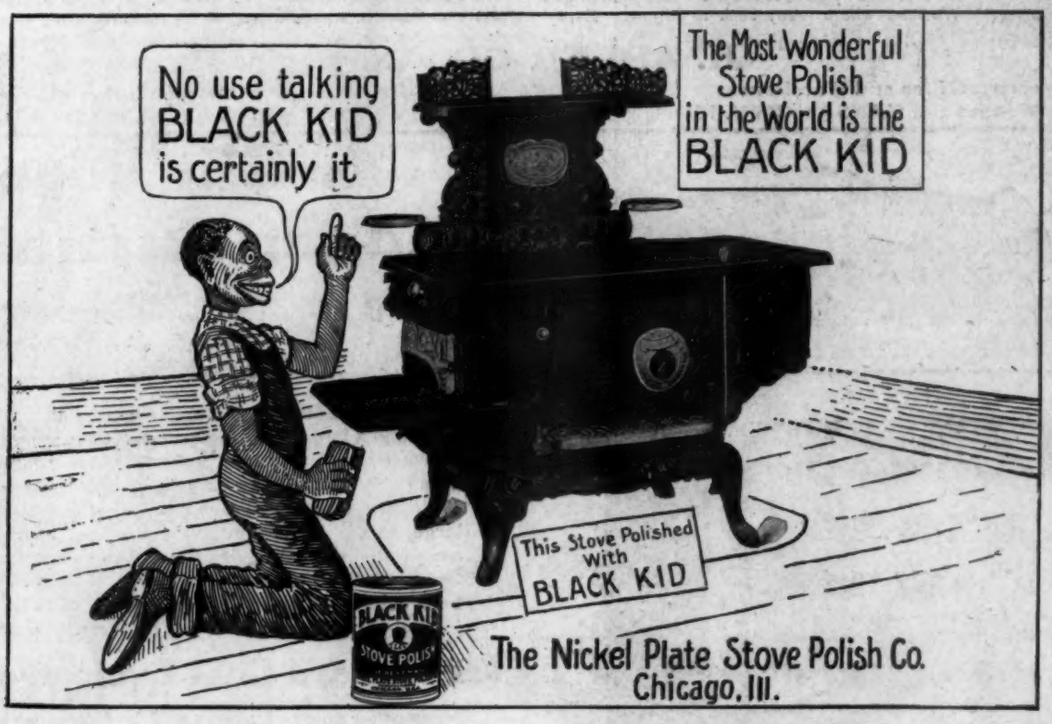
FRANK D. STOLZ,
156 Webster Ave. CHICAGO

THERMOSTATS

SPRAGUE DAMPER & VALVE REGULATORS Non-Electric.
10 years in use. Thousands giving satisfaction; they are guaranteed; also Sprague Electrics, and automatic checks for Steam, Hot Water and Hot Air Heaters of all kinds.
HOWARD THERMO. CO., - West, Oswego, N. Y.

The Curtis Hardware Co., Paonia, Colo., write:

"Kindly take out our advertisement for man as we have about 25 applications."



REGISTERS : FACES . BORDERS

in every conceivable style, shape, design and material, made by

THE FERROSTEEL CO., Cleveland, Ohio

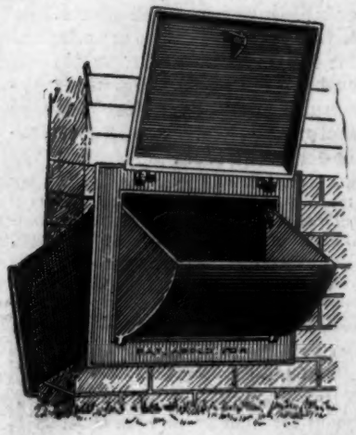
FERROSTEEL CAST—Mechanism and Finish Perfect, Designs Artistic and Attractive.

FERROSTEEL MODIFIED STEEL—Face Cast, Bottom Wrought Steel, Air Capacity Large, Designs all Styles.

FERROSTEEL WROUGHT STEEL—The most rigid made. Air Capacity greater than all Other Plain Lattice Wrought Steel Goods.

New Catalogue Just Out—FREE. Prices Rock Bottom. Our Record is Our ☞

Persistent Superiority
Persistent Superiority
Persistent Superiority
Persistent Superiority
Persistent Superiority
Persistent Superiority

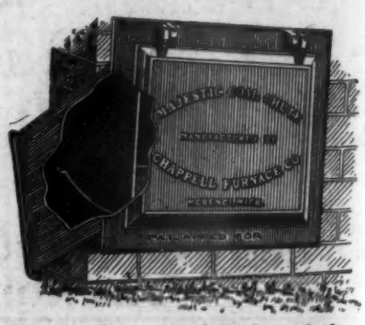


THE MAJESTIC

Coal, Wood or Vegetable

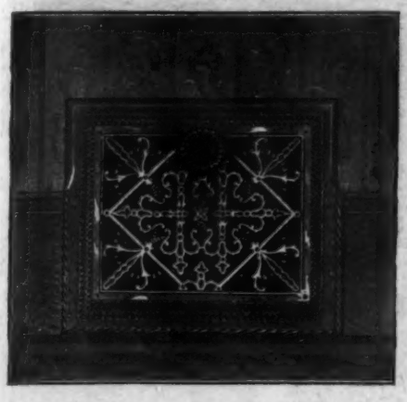
CHUTE

Fills a long felt want. Is burglar proof. Saves many broken windows. Is a splendid seller. Write for prices and secure agency at once.



Showing Door closed flush with the wall, and automatically locked on the inside.

THE CHAPPELL FURNACE CO., Morenci, Mich.



THE SCHWAB SIDE WALL REGISTER

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just a few, far sighted people
who are willing to be persuaded
to put in their furnace
during the summer months,
when there's more daylight
in the basement and more
leisure among furnace people,
and there
SHOULD BE MANY MORE.
We start the subject in the hope
that the furnace man who has
not been hustling just as hard
setting forth the superiority of
the Round Oak furnace and the
advantages of summer installation
as he might, will take a
"fresh hold" and
regardless of discouragement
enthusiastically go after them
with high quality (and a fair profit)
as the argument,
instead of PRICE ONLY.
Goodness yes, it is high time there
were more furnace dealers talking
"high quality" furnaces and
furnace installation that is "right"
if it does cost more.
It is the only kind that
secures a reputation and after that
the business comes easy.
"Warmth and Comfort" our
furnace catalogue by mail for
the asking.

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P. D. BECKWITH
Fred E. Lee, Manager,
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MAKERS OF
GOOD GOODS ONLY

"Hello, Fritz. My name's Dick Thrift. Don't you want to go with me over to the factory? I'm taking my father's dinner."

"Is your vater one of the 700 Round Oak men? I would like to know him."

ESTABLISHED 1880.

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

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CHICAGO, JULY 21, 1906.

Notice is hereby given that Walter F. Wollensak, *alias* W. F. WALLACE, is no longer in the employ of The American Artisan, and is not authorized to receive or receipt for any money for this journal.

Commerce and the Learned Professions.

IT IS not so long since the so-called learned professions were the sole attraction of men of education and refined men. The physician, for instance, commanded respect of an exceptional nature in his community. Respect that was not always contingent upon his possessing a good reputation. Socially he stood head and shoulders over us his brethren engaged in plebeian commerce, and he would find his compensation in honor for his leanness of purse and shabby gentility. Commerce was left to the wholly despised but necessary tradesman. The learned professions drew beneath them the line which separated them socially from their tradesman, be he the prince of commerce or his humble brother, the retailer.

Could the English barrister of the last century be set down in New York or Chicago to-day, he would be filled with amazement at the standing of his profession as it now is. The modern lawyer has lost practically all the ancient dignity which in former years was attached to his profession and nowadays distinction, merely because of a profession, is unknown. It comes only to a few men, even in large centers and then only as the result of particularly brilliant accomplishments. It does not accompany the profession. Every one is assumed to be at least moderately educated to-day, and there are men guiding the destiny of railroads, insurance and other corporations not to mention many of the smaller businesses whose attainments and training would amply qualify them as presidents of universities or to sit upon the benches of the highest tribunals.

The great spread of commerce and its wonderful growth have commercialized the law and in a lesser degree the other professions and arts. The average lawyer is practically nothing more than an independent clerk. The commercial magnate calls him, tells him what must be done, even dictating the legal procedure by which the object should be attained, leaving the lawyer to attend to the detail work. Dignity in the law has taken itself to rural communities. Commerce is supreme. The terms tradesman and shopkeeper have practically passed out of existence in this country, and the term business man covers a wide range. The proprietor of a notion store shares its possession in common with the head of the trust which controls his commodities. Even the executive of the nation is proud when able to say that his administration has been conducted upon business lines.

Men of great ability are beginning to realize that the expenditure of their energy in competition with a host of other capable men in the practice of the law cannot compensate them at the ratio proportionate to them which is theirs as the head of a large commercial institution, especially when that compensation be computed in dollars and cents. Commerce is all supreme and will remain so, living as we do to-day in an aristocracy of money.

Trade Schools.

THE crying need for trade schools in this country must within a short time meet with some response on the part of the thinking public. This country is now at the high water mark of prosperity, the trade balance was never so great as now, and while all this gives us the right to be proud of the wonderful strides we have made, yet there remains to be removed the proverbial fly in the ointment. The ability of this country to outstrip its competitors in the markets of the world is not due to its ability to sell the highest quality at the lowest prices, but unfortunately has turned on considerations of cheapness and quantity and not on considerations of quality. American manufacturers make things cheaper, not better, than their competitors. If we seek the reason for this, we find it in the fact that the home manufacturer understands better how to organize production on a vast scale and utilize machinery without limit. The logical result of this unlimited use of machinery is that the employes tending these machines become dwarfed intellectually and the employer finds the difficulty of getting men qualified for the higher commercial positions becoming greater and greater. The problem of counteracting this tendency is one to which manufacturers in every part of the country must turn their attention. The remedy is not far to seek.

The phenomenal progress in commerce made by Germany during the last century may be ascribed in no small degree to their system of continuation or trade schools. Designed as they are to improve the equipment of the industrial worker, statistics show that the youths of Germany embrace enthusiastically this opportunity to acquire outside of working hours a knowledge of the principles and the practical operations of their particular trade. It must be borne in mind, also, that the German youth has his commercial career interrupted for a period of years during which he must perform his compulsory military duties,

and yet it cannot be seriously contended that he is not the superior of his American brother in his knowledge of the principles of his trade. Millions of our youths between the ages of fourteen and twenty-one, engaged in commerce and industry, are not growing intellectually as they should either in general culture or in a broad understanding of their particular occupation, with the result that they are not developing into so high grade producers as is desirable or possible. This means a national loss.

The trade school has proven a success in Germany; its analogue, the Polytechnic schools of England and France are doing excellent work. Why not then profit by this example? It is high time that representatives of organized labor and organized capital put their heads together and promote a system of trade schools in this country. The trade unions have nothing to fear and the technical schools will not suffer. It will afford the youth the opportunity to qualify for the highest industrial positions now held by foreigners and his general intellectual growth will be stimulated.

The question is one of great importance and deserving of immediate consideration. We trust the representatives of capital and labor will unite in promoting a system of trade schools throughout the United States.

The Square Deal in the Business World.

IT HAS been proven to the satisfaction of most sensible business men that treachery in the world of commerce is to say the least a short-sighted policy. The Machiavellian theory that a man ought never to keep his word when his interest might be jeopardized by so doing, has long since been recognized as the quickest route to the bankruptcy court. In course of time character will rule the world; not, mark you, because we heed the Sunday discourse from the pulpit or that we are patterning our lives after the Sermon on the Mount, but because we find that character will win where collateral will fail. Credit is frequently refused the man rated as wealthy and accorded the man whose wealth consists of what he earns from day to day. And this is not so strange as it may seem at first blush. It is all a question of the Square Deal. The wealthy man can pay but won't and the other is just able and does. Bankers look just as closely at the man as they do at the securities.

Securities may depreciate in value, lands may lose their value because of improvements in other directions, flourishing enterprises which are gilt edge today, may, because of competition, have all the gilt rubbed off and become back numbers, but character does not depreciate in value nor can it be hurt by competition. Character insures a square deal at all times, and it is an axiom that a guarantee is not worth more than the man behind it. The crooked business man cannot see these things in this light; to his way of thinking it is akin to putting cupids and representations of sentimental things on the ceilings of business houses, but the fact remains nevertheless that the house giving the Square Deal and with a reputation for giving the Square Deal will have the greater cause for satisfaction at the end of the financial year.

Commercial ethics and methods of commerce have of late years taken on a vastly different aspect; take, as an example, the house that offers to exchange goods or refund the money and does it willingly and without a murmur as against the house pursuing the opposite policy. The shopping public is quick to notice the difference and act accordingly.

Character is the key note to every business transaction to-day. Business is not a grab game, and if you recall the men you have done business with during the past twenty-five years, you will find on top those who have eliminated everything that savored of treachery and who have taken as their motto, "Just a Square Deal for All."

RANDOM SKETCHES.

BY SIDNEY ARNOLD.

THAT superstition is still rampant in the land was evidenced Friday the 13th. What a combination! Friday, July 13th, of the year 1906. Of all the hoodoo days encountered during the calendar year, none has better claim to the title of the "Dark Champion." An atmosphere of dark foreboding hangs round it—the thirteenth day of the seventh month! If 1-9-0-6 be added to 7, you have 23; add 7 to '06 and the fateful 13 looms up. Again in "Chicago, July 13" there are thirteen letters or numbers.

Is it any wonder that people went round in fear and trembling. Furtive glances met you whichever way you turned.

We are all of us more or less superstitious, although few will come out in the open and admit it. Personally, I'm one of the few; for instance, I firmly believe that it is unlucky to fall out of a fifteen-story window on a Friday. But I am digressing; let us return to our muttons: How carefully we all avoided the ladder reared against the side of a building; the outer edge of the sidewalk was good enough, and the smile, half of satisfaction, half of sheepishness, was good to see.

It is still believed by many that to move contrary to the sun's direction brings woe and wretchedness. If this be true on an ordinary day, how horribly dangerous would defiance be on the "Champion Hoodoo" day. Were you out late that night and did you arrive home at 1 a. m.—the thirteenth hour—and did you perceive at your door step a cadaverous black cat? If you did, you are to be pitied unless you had enough presence of mind to turn around. Some weary, wobbly homegoers may have found in the poor cat an excellent excuse to go turn around and go to the last place for "just one more."

To my mind superstition is made to cover a multitude of sins. But we no doubt all felt better after the atmosphere of misfortune attached to the "Dark Champion" was lifted with the stroke of midnight.

* * *

THE old saw, "every man for himself and the devil take the hindmost," does not now possess the amount of truth we were wont to invest it with formerly. It is perfectly correct that we are all of us, from a business point of view, leading a cut-throat life; yet the far-seeing business house is recognizing it to be the better policy, and the most profitable, too, be it under-

stood, to keep a close watch on the interests of its customers and not to regard the transaction as terminated with the goods delivered and the bill paid. The most successful house is the one imbued with the idea of benefit to both parties to the sale. The process of exhaustive reasoning will not lead to the conclusion that the business world is emulating the example of the well organized charitable institution or that the business men of this country, during office hours, are modeling their lives after that of St. Vinvent of Paul. It is still a matter of dollars and cents with them, but they realize that in helping their customers they are helping themselves. The role of mentor to success is being assumed by many to-day (the school of correspondence will put you far forth on the highway to success for $5), and be it far from me to arrogate to myself the mantle of Wisdom, I venture to affirm, nevertheless, the house will achieve success that never allows its interest in its customer to flag.

Nothing is more confusing to one's sense of propriety than to turn quickly from the advertising pages of a magazine to the reading section. The mental picture of the Venus-like young lady who is braving the inclemency of the weather in order to demonstrate the advantages of wearing Jones' famous transparent corsets is transferred to the simple story of rustic life, and we Anglo-Saxons receive a shock.

It is passing strange that we will allow in the advertising section what we would not for one moment tolerate in the body of the magazine. If in the serial story the author mentioned that his heroine was in no danger of catching pneumonia because she wore webbed underwear and a picture of the lady were inserted, one with which we all are familiar, taken from the advertising section, what a howl of indignation would go up, and how many subscriptions would be immediately cancelled! It would mean the lowering of the moral standard of the magazine, and the public will not stand for vulgarity.

Can you imagine what would happen if another distinguished writer said in the course of his serial that Mabel Irvine attributed her good health to the regular use of the morning tub, and the art editor, with a view to reducing expenses uses a cut filched from the advertising department, said cut showing a fair damsel sitting in one of Smith's porcelain baths? The uproar would be awful.

We are not attempting to explain this curious mental transition, and as far as we are concerned, the lady may stand in the tub throughout the entire twelve months without a word of protest from us.

* * *

What does real greatness consist of, and how can it be achieved? These are questions deserving of serious thought, and ones that have lately been given attention by one of our leading educators—President Arthur T. Hadley, of Yale. He was addressing the graduates, and giving them some good advice, so good that perhaps it will not be out of place right here. He said:

"Men are saved by what they do, not by what they profess. But it is not enough to get things done. They must be done right.

"In law or in medicine, in business or in politics, you will find heroes that you wish to be like. A strong man of any kind will find friends and followers. Be he prize fighter or fanatic, politician or millionaire, philosopher or Christian, there will be men who will choose him for a hero and stand or fall by the choice.

"I believe that whenever it comes to a great crisis—political, industrial, or moral—there is enough of the spirit of Christ in America to save us.

"But though we have good ground for hope we are far short of having ground for complacent assurance. That part of our people which turns with avidity to sensational accounts of robbery and arson and murder is not far removed from the multitude that cried, 'Not this man, but Barabbas!'

"That part which looks to platform or press for appeals to its passions, and which seeks a leader who can give voice to the promptings of its own prejudices or emotions, has advanced little beyond the stage of those who clamored for the crucifixion.

"And that part of our people which, though more respectable than the first group and more enlightened than the second, is nevertheless content to make prosperity in business or politics the test of success, and to give all its thoughts to the attainment of that prosperity by any means not too grossly inconsistent with respectability or enlightenment, does not differ greatly from him who washed his hands of the whole matter that was the most momentous in the world's history.

"I do you the justice to think that none of you will choose Barabbas. Nor do I believe that many of you will be found in the group that follows Caiaphas. But there is danger, and grave danger, that without knowing it you will enroll yourselves among the followers and worshipers of Pontius Pilate.

"As we look back on the pages of history, the men whose figures rise large and inspiring are not those who amassed fortunes or won battles or conquered empires; but those who, amid the hostility of the critics and the indifference of the world about them, have strongest stood for principle.

"The battles and the fortunes of a Marlborough—nay, the very empire of a Louis—pale before the majestic constancy of purpose of William of Orange.

"In the great drama of slavery and secession we draw our largest inspiration not from the brilliant arguments of the orators nor the brilliant strategy of the generals but from the patient endurance of two great, heavy hearted men on opposite sides, unlike in all else but alike in unselfish devotion to principle as they understood it—Lee and Lincoln."

* * *

Mr. James H. Reed, 157 Pine street, Williamsport, Pennsylvania, representing the Pittsburgh Stove & Range Co., sends us the following anecdote:

"My little daughter (seven years old) came to me last Friday and said, 'Papa, if you buy your cigars at Milleners' drug store on Saturday, you will get a carnation with each cigar.'" Williamsport is a town of forty thousand inhabitants and if a child to whom, in the ordinary way, such an ad would not possess the elements of interest notices it, it is sufficient to assume that the grown-ups were attracted by it.

News Siftings

The new warehouse of the Art Stove Company, Russell street and Milwaukee avenue, Detroit, Michigan, has just been completed. It is six stories high, eighty by one hundred feet and constructed of pressed brick. The company are storing over thirty thousand stoves in preparation for the Fall and Winter trade.

The Sheridan Stove Manufacturing Company, of Quincy, Illinois, are meeting with such success that they are compelled to increase their facilities. They are about to erect a brick building, sixty by one hundred feet, three stories high, for warehouse, and another building, forty by fifty feet, two stories high, of which one floor will be used for the nickelplating department and the other for steel range making.

The Thomas White Stove Company of Quincy, Illinois, have issued a folder entitled the "Beacon." Like all the literature of this house, it is well gotten up, letter press and illustrations being excellent. A number of testimonials attesting the merits of the "Beacon" stove are given and the company believe that a perusal of them by the party into whose hands this folder may fall, will prove the most convincing evidence that the stove is what the company claims of it—the most wonderful and satisfactory coal heater ever made.

We learn from the Salem Times-Register and Sentinel that Mr. St. Lawrence Chandler, the well known Chicago representative of the "Radiant Home" stove, and a son of Major Libert Chandler, will some day come into title.

It appears that an English baron now residing in Chicago—the Hon. Claude Penley, Baron d'Livingston and Marquis of Eckersley—became so fond of Mr. Chandler that he has legally adopted him as his son, having no family of his own. He has expressed the wish that at his death Mr. Chandler shall adopt the title of Baron Salem, as a courtesy to his new found son's favorite town.

There are only two titles in England that can be transferred by adoption, to wit, one in the event of no heir, the other being the earldom of Surrey. Mr. Chandler expects to visit Salem very soon, and had contemplated bringing his adopted father with him for a brief stay, but he fears now that the baron could not undertake the journey on account of his health, being eighty-four years old.

STOVE PATENT CAUSES SUIT.

Will Espy Curtis, Chicago, Illinois, filed suit this week against the Wrought Iron Range Company of Kittlee, Missouri, in the United States Circuit Court, seeking to restrain the latter from manufacturing and selling a patent chronometric arrangement adapted to ranges made by this firm. He asks for an injunction and accounting.

AFTER THE PLUMBERS' TRUST.

Suit for $250,000 damages was filed in the Circuit Court by the Coyne Brothers Plumbing Company against the Crane Company, the L. N. Rumsey Manufacturing Company and the N. O. Nelson Manufacturing Company. The petition alleges that the three firms sued are in a trust and that they refuse to sell plumbers' supplies to Coyne Brothers' Plumbing Company.

REGAL PEORIA STOVE.

A strictly high-grade modern stove, having all the latest improvements of practical value, is the claim of the Culter & Proctor Stove Company, Peoria, Illinois, for their Regal Peoria.

It is a double heating base burner for hard coal, and the flue construction is so arranged as to throw heat over the entire surface of base, utilizing all heat. The hot air circulating flue draws cold air from the floor and in its passage through the heated base up and through back flue to hot air exit, the manufacturers claim the air becomes thoroughly heated. By attaching pipe to collar over hot air exit this heat can be carried to upper room, or by reversing the damper this heat can be thrown into room occupied by the stove. The Regal Peoria has improved duplex grate with ball-bearing shaking ring.

The manufacturers will be pleased to send catalogue and full particulars to those writing and mentioning THE AMERICAN ARTISAN.

THE "RED CROSS" STOVES.

We have received the fortieth annual catalogue of the Co-Operative Foundry Company of Rochester, New York. Mechanically it is a beautiful piece of work and is indicative of the care that is nowadays given to the preparation of high-class catalogues. In size it is 7¾ by 5¼ inches and contains 135 pages. The cover is an intense black with the name of the Company in gold and the well-known "Red Cross" trade mark in red. The latter stands out most effectively on the black background. Two full page illustrations show the foundry, offices and warehouse on Hill Street, and the foundry and warehouse at Lincoln Park, Rochester, New York.

The catalogue indicates clearly how closely up-to-date the concern is in new constructions and revised ornamentations. For forty years the Red Cross line has been on the market and during that time a reputation has been built up of which the company is justly proud. The Red Cross "Victor," an especially handsome range, is one of the company's leaders. It is constructed of the finest obtainable Planished steel with double plates, interlined with asbestos. It has other special features which are fully set forth in the catalogue.

The Royal Red Cross parlor heater is a stove original in outline and described by the company as a fascinating work of art. One of its special features is the eclipse grate which it is said, gives perfect satisfaction.

An attractive line of gas ovens, cast cooking attachments, furnace grates, furnace water heaters, Farmers' Boilers are shown and the catalogue closes with directions for operating stoves and extracts from various publications respecting chimneys, drafts, etc.

This catalogue is the most useful document which the company or their Chicago representative, Mr. John Kontny, 65 North Desplaines street, will be glad to forward to any one interested if they mention THE AMERICAN ARTISAN.

STOVES IN JAPAN.

The fuel in Japan is charcoal, wood, coal, coke and kerosene oil. The Japanese cooking apparatus is of two kinds—one of the "shichirin," a small portable construction of metal or earthenware, costing from 25 cents to $1.25, and heated by means of charcoal; the other, the "kamado," a kind of stationary furnace, built of brick and mortar, the price varying from $1.25 to $10, and burning wood as fuel. The houses are usually heated by charcoal braziers, costing from 50 cents to $15.

Foreigners there use cooking stoves, of which some are imported from America, England and France, but the greater number are of the Japanese make, while their residences and offices are heated by grates and stoves, most of which are of Japanese manufacture, though those houses built by foreigners are usually fitted out with American and English grates. Only a few furnaces and steam heating plants are in use. Very creditable stoves and grates are made there, and though somewhat inferior in quality and finish they are largely taking the place of the imported article on account of the cheap prices at which they are sold. The prices of Japanese manufactured stoves and grates show a great variation, the approximate figures being: Office stoves, from $3.50 to $48; cooking stoves, from $7.50 to $98; oil stoves, from $3.50 to $39.50, and grates, from $3.50 to $40.

THE GEM RANGES, STOVES AND FURNACES.

We have received a copy of the catalogue of the Gem City Stove Manufacturing Company, of Quincy, Illinois, which is designated as No. 22, and is in every sense of the word a creditable production. It contains one hundred and eight pages and cover, and in size is 5¼ x 7¼.

The lay-out and arrangement are excellent. It opens with a half-page illustration of the works at Quincy, Illinois, then two pages are devoted to the conditions of sale, directions for setting up and directions for operating stoves. An insert announces that a gold medal was awarded the company at the Louisiana Purchase Exhibition at St. Louis. The catalogue proper begins with the Gem ranges and stoves to which about seventy pages are devoted, the illustrations and presswork being most excellent. Then follows the "German Heater" in connection with which a page of enthusiastic testimonials is given. The various other kinds of heaters, manufactured by this company are done full justice to in subsequent pages, the catalogue ending with a list of obsolete stoves for which the company can furnish castings. This catalogue has every indication of being a business getter. It shows a magnificent line of goods, the half-tone work and presswork are perfect and we venture to predict that it will greatly popularize the products of the Gem City Stove Manufacturing Company.

A copy will be gladly forwarded to anyone mentioning THE AMERICAN ARTISAN.

STOVES AND RANGES FOR SPAIN.

Heating apparatus for closets such as oil or gas stoves, can be successfully introduced in Corunna, Spain, according to British investigation. The houses there are almost all built without chimneys and the buildings not being of the first-class built, suffer considerably from the cold during the Autumn and Winter months. The method heretofore in greatest favor for keeping rooms warm has been the old-fashioned charcoal brazier, but this is now falling into disfavor. Many small gas stoves or petroleum lamp stoves are in use but petroleum is very dear and the small gas stoves are not very satisfactory. A good portable stove consuming a minimum of fuel would probably have considerable success in the long run. Although it might require some time to get it into general favor. The Spaniards are very conservative in their habits. The same remarks would also apply to good kitchen ranges. Those in use at the present time are mostly of Spanish or French make and are placed on a strong marble or stone slab raised about two and one-half feet from the ground under the chimney. The ranges themselves are about one and one-half feet deep and three feet in length, leaving very little space for an oven. These stoves are also proportionately very expensive as the average price for an ordinary sized one is from $30.00 to $35.00. This information should be of value to American manufacturers.

WAGES SHOW A MARKED GAIN.

In the quarterly bulletin of the New York state department of labor Commissioner Sherman calls attention to the fact that the figures show that during the first three months of this year the average wages of wage earners were $3, as compared with $2.85 during the same period last year, and were much higher than the average wages usually earned.

A year ago the average quarterly earnings of organized wage workers were only $187, as compared with $212 this year. But last year the average duration of employment in the three months was only sixty-six days, as compared with seventy-one days this year. In no recent year has the average number of days of employment in the first quarter exceeded sixty-eight.

The estimated cost of buildings authorized in the metropolis in the first quarter of 1905 ($50,000,000) was unprecedented, but has been largely exceeded by the first cost of buildings projected in the first quarter of 1906, which was no less than $64,700,000, the increase being in the boroughs of Manhattan and Queens.

There was a net gain of nine labor unions (116 going out of existence) during the six months ended on March 30, making the total number of unions in the state 2,411. Their membership is 394,270, a gain of 3 per cent in six months.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly. You will find these on pages 34 to 39 inclusive.

At the annual meeting of the Commercial Club of Fort Wayne, Ind., held recently, Mr. B. Paul Mossman, the well known hardware merchant, was elected president for the ensuing year.

The Meyer Hardware Company of Evansville, Indiana, have taken over the business of the Griener Hardware Company, Mr. Meyer becoming president and treasurer of the concern.

The local papers have been circulating some incorrect information to the effect that Ernst Stoeltzing has purchased the hardware stock of Gardner & Company of Kansas City, Missouri. This is a mistake, as Otto Knapp has purchased the Gardner & Company stock.

The "Santa Fé Southwest" is the title of a booklet issued by the Santa Fé Railroad. It is a most attractive and interesting compilation illustrated with photographs and maps and shows what the possibilities are of securing artistic effects in this class of literature. Mr. John T. Bramhall is the author and is to be congratulated on the interesting and alluring pen picture he gives us of the wonderful country traversed by the Santa Fé. The company will be glad to forward a copy to anyone mentioning THE AMERICAN ARTISAN.

The Wm. Henry & R. E. Bell Hdw. Co. of Ft. Worth, Texas have discontinued their retail business, selling same to Wm. Henry & Co. The officers of the new concern are Mr. A. J. Roe, president; Mr. D. C. Campbell, vice-president, and Mr. J. A. Corbitt, secretary and treasurer.

The new concern will occupy the new 4-story brick building, now being erected by Reynolds Bros., between 9th and 10th, on Houston street. When housed in their new quarters they will have one of the most up-to-date hardware stores in Texas. They will open their new quarters and be ready for business between July 20th and August 1st.

A USEFUL OUTFIT.

The number 602 "Napanoch" pocket knife tool kit, manufactured by U. J. Ulery & Company, 9½ Warren street, New York City, is an article of proven merit. The pocket knife can be instantly converted into a reamer, file, saw, chisel or screw driver, and the demand for it is steadily growing. Dealers looking for a good seller should write for further particulars to the manufacturers, mentioning THE AMERICAN ARTISAN.

LIGHTNING RODS.

It is generally conceded by scientists, but not generally known by the public that good lightning rods are a sure protection from the discharge of atmospheric electricity through our houses, bodies and animals.

The mission of the Omaha Lightning Rod and Electric Company, Omaha, Nebraska, is to remove all doubts that may still lurk in the mind of the lay man and with this object in view they have issued a thirty-six page booklet in which every phase of the subject is treated. They call the special attention of the hardware and implement dealer to the fact that the Omaha Lightning Rod, by its appearance, pleases the purchaser. No instance has ever been reported of damage to a building rodded with this rod. The company will be glad to forward a copy of this most interesting booklet to anyone mentioning THE AMERICAN ARTISAN.

BEES.

"Bee Keepers' Supplies" is the title of a booklet issued by the Kretchmer Manufacturing Company, Council Bluffs, Iowa. It consists of sixty-four pages and cover and contains a vast amount of information of value to bee keepers. A glance at the catalogue will show that the company manufactures everything that the bee keeper can possibly require, and we strongly advise those of our readers who are interested in bees to snd for a copy of this booklet, which is published in both the English and the German language.

DECRIES YELLOW JOURNALISM.

Our readers are probably aware that the publisher of this paper has brought damage suits against the National Hardware Bulletin, which is the official organ of the National Retail Hardware Dealers' Association. We quote the following from the Tradesman, the well known industrial trade journal of Chattanooga:

The Tradesman is in no way interested in the questions involved as to the parties concerned, but can hardly refrain from expressing its opinion as to the course taken by the Bulletin in publishing the cartoon referred to. The retail hardware dealers are not directly responsible for what their organ says or does, in any individual case, but a repetition of an offense rests the onus, if such there be, on them. The cartoon published in the Bulletin reflects neither credit on the publishers of the journal or on the organization it represents. On the contrary, if the Bulletin had or has any standing at all it will certainly suffer materially for permitting such a print to appear on its pages.

One looks for decency in trade journalism, and when a publication oversteps the bounds it is time then business men teach it a lesson that it will not forget.

The Bulletin may occupy a field of usefulness, but a yellow trade journal is of about as much use and wields as much influence as any other publication of that stripe and certainly has no place on the desk of the business man of to-day.

If the National Hardware Bulletin is the authorized representative of the National Retail Hardware Dealers' Association, the association in this instance has no call to be proud of its representative or those responsible for it.

STEVENS' FIRE ARMS.

We have recently received a copy of Stevens' latest abridged catalogue which embodies illustrations and detailed descriptions of all their staple numbers. This includes the new No. 80 Repeating gallery rifle (ready

September this year), Stevens' "Little Scout," No. 14 and No. 325 double barrel hammerless shot gun. The two latter new models are now on the market.

This catalogue has an attractive cover and is a handy booklet of ready reference for circularizing purposes or for individual distribution at retail stores. The company will be glad to forward to any hardware or sporting goods merchants handling fire arms a liberal quantity of this latest edition of Stevens' abridged catalogue, imprinted with the dealer's name and address. It is a booklet which should be a business getter for the dealer, and we advise them to secure a quantity for distribution. When writing, kindly mention THE AMERICAN ARTISAN.

A NEW CORN HUSKER.

We illustrate herewith the "Twelve-In-One" adjustable corn husker, manufactured by F. D. Kees Manufacturing Company of Beatrice, Nebraska, which differs from other makes in that it affords a much wider

Twelve-in-one.

range of adjustment. There are eight positions for the single hook and four for the double hook, two hooks being furnished with each husker. The widest range of adjustment consistent with simplicity and strength is obtained. Three buckles attach the husker to the hand, the wrist band is wide and is made of the best leather obtainable.

Before the "Twelve-In-One" was placed upon the market, it was given a thorough test by actual corn picking. Late last fall samples were sent to hardware dealers in Nebraska with the request that they be placed with other husking goods and the result reported. Though the season was well advanced, many ordered several dozen, and in every case gave perfect satisfaction. The F. D. Kees Manufacturing Company will gladly forward a descriptive circular to anyone interested. When writing, kindly mention THE AMERICAN ARTISAN.

FACTORY FURNISHINGS.

The Grand Rapids Hand Screw Company, of Grand Rapids, Michigan, have issued their catalogue number ten entitled "Factory Furnishings." From a mechanical point of view it is a fine production. Everything is in keeping, paper, printing and engraving. The half-tone cut on the first page showing the company's office and factory being especially handsome.

As the title indicates, the company manufactures everything of use in a factory. For sixteen years they have been manufacturing benches for wood workers and believe they may truthfully claim to have reached as near perfection as possible. For sixteen years they have studied the requirements of the factory workers of Grand Rapids, the world-famed Furniture City, and are thus in a position to know the needs of factories generally. Their benches are built throughout of the best Michigan hard maple, carefully selected and thoroughly kiln dried and are equipped with their patent saw nut thread.

Something like nineteen years ago Jacob Benedict conceived the idea of using automatic clamps for putting up stocks of different kinds, instead of doing this work with hand screws and hand clamps. Mr. Benedict's idea met with universal approval from the furniture manufacturers of the country and to-day at least ninety per cent of the furniture factories of the United States are using some one of the machines which he patented.

The Grand Rapids Hand Screw Company has acquired the patent rights, stock, good will, etc., of the company founded by Mr. Benedict, and combining this class of machines with their original line of factory furnishings they have so completed their line that a furniture manufacturer, in glancing through the catalogue, will find illustrated all goods of the nature of factory furnishings that he might need. The company will be glad to furnish a copy to anyone mentioning THE AMERICAN ARTISAN.

THE PEACEMAKER.

The Benhow-Brammer Manufacturing Company, of St. Louis, Missouri, are manufacturers of the roller bearing rotary washer, of which we give an illustration. The Peacemaker is claimed to be exactly what the name implies. It will bring peace wherever put into use. A glance at the illustration will show that it is thoroughly well made throughout, equipped with a reciprocating mechanism, simple and strong in construction, operates with perfect ease, and will improve after the machine has been used a few times. The top of this machine is made from the best kiln-

The Peacemaker.

dried Louisiana red cypress lumber, and has corrugated staves and bottom. The wringer box is also made of cypress and is 1½ inches in thickness, and bottom making it very strong. The lid is of double thickness, the hinges are of extra heavy steel, and the dasher or pin wheel is made of hardwood re-enforced crosswise of the grain.

The hood completely covers the gearing, and where there are very small children this is an important item as it prevents possibility of accident. The machine is handsomely finished in the natural color of the wood and it is safe to say that it is as handsome and practicable a machine as can be found on the market to-day.

HENRY DISSTON & SONS CATALOGUE.

Henry Disston & Sons, Incorporated, Philadelphia, Pennsylvania, with branch houses in various parts of the country, have issued their new catalogue. It is substantially bound in book form, ten and one-half by seven, two hundred and four pages and cover. The illustrations are profuse and enable one to obtain an excellent idea of the goods made by this old established company. Although known principally as saw makers the company manufactures an extensive line of other goods to which the attention of the dealer is called. To mention the multifarious kinds of saws they manufacture would entail the enumeration of every use to which a saw can be put. For sixty-six years they have been manufacturing saws and their extended experience in saw making together with the numerous voluntary testimonials received from practical sawyers warrants the claim that Disston's saws are unequaled. The catalogue shows more than fifty different models of cross cut saws and each model can be obtained in the various gauges. The steel for these saws is made in the Disston steel works and is peculiarly adapted for the purpose intended. They employ their own method of tempering which produces absolute uniformity of temper. By the "clipper" process of grinding a perfectly even thickness throughout the entire toothed edges is insured and the backs, two to five gauges thinner to suit the conditions under which saws are to work. It is not hard to understand that the Disston cross cut saws are generally regarded as superior in finish, temper, cutting edge and the set holding qualities.

An illustration is given representing the various styles of teeth for circular saws, and by referring to this when ordering, the customer is enabled to state exactly the style of tooth required. Disston's standard gauge which corresponds with the Stubbs English is also given.

The company makes a specialty of plastering trowels and their line of brick pointing and plastering trowels is complete. They are made of the highest grade crucible steel carefully tempered and ground. The handles are mounted in the most approved manner and are guaranteed to be the best on the market.

Disston's cane knives in twenty different designs are fully described and illustrated, as are also the Disston machettes, edge knives, edge trimmers, etc. The "Little Giant" pruning hook and saw is worthy of passing notice. The knife and saw are both made of the best cast steel and can be used with or without a pole. Machinists' tools in endless variety are shown as are the Disston mitre squares.

Special attention is called to the Disston's patent adjustable plumb and level. The adjusting is done by screws and when adjusted forms a perfectly solid plumb and level and therefore cannot get out of order.

The last pages of the catalogue are devoted to files, for which this house is deservedly famous. Every size, every conceivable kind of file is enumerated. A separate department is thoroughly equipped for the manufacture of superfine files in all sizes and shapes known to the trade with a patent process for hardening. They are guaranteed equal if not superior to other of foreign manufacture.

Inasmuch as this new catalogue regulates the prices of some standard articles it should be in the hands of every dealer, and the company will be glad to forward same if mention is made of THE AMERICAN ARTISAN.

SATISFACTORY WORK WITH PETERS SHELLS

At Watson Park Gun Club, Chicago, July 4th, the high score in the 100 bird handicap race was made by Mr. C. A. Young, representing The Peters Cartridge Co., shooting Peters factory loaded Ideal shells.

Mr. Luther I. Wade, one of the Texas representatives of The Peters Cartridge Co., made the high professional score in the Grand American Handicap at Indianapolis on June 21st. Mr. Wade shot well throughout the tournament, and would have done even better but for some little trouble with his gun.

At Greenville, Ohio, July 4th, Mr. H. A. McCaughey shot on the grounds of the Greenville Gun Club and broke 59 out of 60 with a run of 57 straight, establishing a new amateur record for the Greenville club. He always uses Peters Ideal shells.

Mr. H. E. Poston, West Tennessee representative of the Peters Cartridge Co., won high average at Memphis Gun Club tournament, July 4th, with a score of 187 out of 200. Mr. Poston is quite popular with the shooters of Memphis, and was presented with a handsome umbrella by the club as a mark of their appreciation. Mr. J. L. Canale won second high amateur average with a score of 180 out of 200. Mr. Canale used Peters Premier shells. Mr. Poston used Peters Ideal shells.

At Mount Pleasant, Pennsylvania, July 4th, high average was won by Mr. A. B. Kelley, using Peters Ideal shells. Mr. Suder was second, and Mr. R. S. Denniker third. Mr. Denniker also won the merchandise event. All three gentlemen used Peters factory loaded ammunition.

At Shreveport, Louisiana, tournament, July 4th and 5th, Mr. Luther I. Wade, shooting Peters Ideal shells, tied for high average with a remarkable score of 485 out of 500. Mr. Wade was also high man on the first day, losing three targets out of 250, and making one run of 149 straight.

At Richmond, Virginia, July 4th, Mr. E. H. Storr, shooting Peters Ideal factory loaded shells, won high average over a large field of professional and amateur shooters with a score of 185 out of 200. Two days later at Rocky Mount, North Carolina, Mr. Storr again won high average with 191 out of 200.

At Portsmouth, Ohio, July 4th, high average was won by Mr. Kinney Nolder, the score being 182 out of 200. Mr. A. T. Davenport was second with 181; both gentlemen using Peters shells.

At the Thomasville, Georgia, tournament, July 4th and 5th, Mr. Walter Huff won high professional aver-

age; Mr. H. N. Hall was second, and Mr. J. W. Hightower third, all using Peters factory loaded shells. In the special 50-target race Mr. J. R. Crovatt was first, using Peters shells.

WHY GET UNEASY?

To The American Artisan:

You are aware that there are people so timid as to be frightened from a boat while it is still tied up to the dock. We think the people who we learn are deserting the hardware associations are of this class of weak ones among us and their loss to us in fighting elements is of no consequence.

But in a numerical way for several reasons we need all the strength we can muster for the work we have ahead of us. We are old time subscribers to The American Artisan and, of course, expect to always continue and we keenly regret that any complications should have arisen between it and our association officers, as the bare fact of threatened expensive litigation is not pleasant to contemplate by any of the association members.

It is to be hoped that the controversy may be speedily adjusted and ended in some way, even if some sacrifice or readjustment be needed to clear the air.

Let somebody move in the matter.

Purpose.

SWEDISH-GERMAN COMMERCIAL TREATY.

A new treaty of commerce and navigation has been signed between Sweden and Germany, to continue until December 31, 1910. Sweden engages not to levy any export duty on iron ores, and in return the export companies are to pay the government a certain share in their profits after 1911, and all the ore mines and plants are to revert to the government absolutely after fifty years. In the usual most favored nation clause an exception is made for Norway, Germany engaging not to claim the benefit of any special advantages enjoyed by Norwegian subjects and trade.

HE HAD HIS BATH.

Immediately after the fire that visited San Francisco and when everybody was doing all they could to assist everybody else, no class of men were more eager to assist others than the hardwaremen. While there were many pathetic incidents in connection with all this there were an equal number on the humorous side. The story is told of Mr. Wakefield Baker, the head of the big hardware house of Baker & Hamilton. Mr. Baker ran across one of the boys of the store, and taking him to his home, gave him the best that he had. The young man was shown to the "spare" bedroom and shown all the hospitality that Mr. Baker could afford. The room was connected with a bath and nothing could be added to make the young man more comfortable and contented. The next morning the young man came down to breakfast looking as fresh and happy as a summer boarder and was very profuse in his thanks to Mr. Baker and the family for the kind treatment he had received. Before taking his leave the young man called Mr. Baker aside and asked that his thanks be extended to the house-maid for so thoughtfully preparing a bath under such trying circumstances. How the shock affected Mr. Baker will never be told and the mention of a bath to the young man makes the cold chills run up and down his back. The facts are that after the water supply had been shut off Mr. Baker's household lost no time in thoroughly cleaning the bath-tubs and filling them with water from a well some five blocks distant. The young man, seeing the shining tub filled with pure water, felt that his host had indeed showered him with hospitality and spoiled a week's supply of water that was at a premium in San Francisco.—The Hardware Journal.

Mr. Harry T. Morgan has resigned his position as secretary-treasurer of the Drury & Kelley Hardware Company of Cadillac, Michigan, and has sold his stock in the company to Charles H. Drury, the company's president.

RETAIL HARDWARE DOINGS.

NEW FIRMS AND INCORPORATIONS.

Humphrey, Nebraska—Murphy Hardware & Implement Company.

Beaver City, Nebraska—North American Cutlery Company.

Lebanon, Oregon—Everett, Kyle & Epperly.

Reubens, Idaho—Reubens Hardware Company.

Salina, Kansas—Pierce Hardware Company; capital stock, $5,000.

Montreal, Canada—Clark Automatic Nut Lock Company; capital stock, $500,000.

Albemarle, North Carolina—Farmers' Hardware Company; capital stock, $25,000; incorporators are J. M. Peeler, H. P. Hicks and others.

Anna, Illinois—E. G. Kerth Hardware Company; capital stock, $10,000; incorporators are E. G. Kerth, Wm. J. Johnston and Francis C. Desrochers.

Huntsville, Kansas—E. E. Rule.

Jersey City, New Jersey—Crescent Belt Fastener Company; capital stock, $10,000; incorporators are H. Bossong, J. J. Rangan and Wm. A. Megrath.

BUSINESS CHANGES.

Hastings, Nebraska—Mortiz & Burnham succeed George Chapman.

Table Rock, Nebraska—W. & J. Nemechek succeed Carmichael & Smith.

Steinauer, Nebraska—Purcell & Cruse succeed M. G. Steinauer.

Laurel, Nebraska—Andrew Solso succeeds L. C. & G. A. Mittelstadt.

Crescent, Iowa—W. A. Butzlaff succeeds the Crescent Hardware Company.

Boynton, Indian Territory—Howard Brothers & McCuen succeed the Howard Hardware Company.

Forsyth, Montana—The H. H. Fletcher Company succeeds Forsyth Hardware & Saddlery Company.

Haskell, Indian Territory—Coover Hardware Company succeeds Carl E. Coover.

Syracuse, Nebraska—W. C. Dilworth succeeds Brandt & Paap.

Mitchell, Nebraska—Mitchell Mercantile Company succeeds C. F. Johnson.

Greenville, Illinois—Seewald & Wallace succeed Frank Seewald.

Gravette, Arkansas—David Roseborough succeeds J. T. Oswalt Hardware Company.

West Lexington, Ohio—C. W. King & Son succeed M. W. Wolfe.

MISCELLANEOUS.

Braddyville, Iowa—Wm. Steere Hardware Company; destroyed by fire.

Long Branch, New Jersey—A. M. Townsley; destroyed by fire; loss, $50,000.

Heating and Ventilating

MAGEE HEATERS.

The Magee steam or water heaters, which are specially adapted to the heating of offices, public buildings, etc., have been known for nearly half a century.

The new Magee water heater, together with the new Magee steam heater, embody the practical and scientific features which have distinguished the Magee heaters. The simplicity of their construction, facilitating easy installation by the contractor, and withal the greatest security finally to the user in the service to which they will be subjected will commend them to all seeking a heating apparatus, as the best. The company or their general western sales agent, Lott Burton Company, 86 Lake street, Chicago, will be glad to forward a copy of their new catalogue to all mentioning THE AMERICAN ARTISAN.

THE AUER REGISTER.

The Auer Register manufactured by the Auer Register Company, 403 Long avenue, Cleveland, Ohio, has many advantages that make it desirable.

The illustration shown herewith gives a view of it as a foot rest and foot warmer. It is a wall register which affords a handsome dust proof front instead of an open grating which accumulates and admits into the register box lint, dust and ravelings. It looks like a grate or open gas stove, adding cheerfulness to the surroundings. The valve when pushed back or open

A Foot Rest and Foot Warmer.

is at an angle of 45 degrees. The air is discharged across the room instead of against the wall and ceiling, preventing the discoloring or soiling of same. The valve resting on the grate by the corrugation on end bars is held in any desired position. Among the many advantages claimed for this register might be mentioned the following: It avoids cutting carpets, soiling walls and the accumulation of sweepings and dust as in a floor register. It regulates the heat to the upper rooms, dispensing with the necessity of going down to the furnace room to regulate the dampers. It deflects the heat away from the walls, saves fuel and enables the furnace to give better satisfaction. Every one of the registers is guaranteed to be free from defects in material and workmanship and to do all that the company claims for it.

Why not write the Auer Register Company, 403 Long avenue, Cleveland, Ohio, for prices and particulars? They will gladly send same and when writing kindly mention THE AMERICAN ARTISAN.

HEATING AND VENTILATING ENGINEERS IN SESSION.

The semi-annual meeting of the American Society of Heating and Ventilating Engineers was held on the 19th and 20th instant at the Auditorium Hotel, Chicago, with an attendance of 150 members. One of the principal subjects that came up for discussion on Friday was the application for a charter for a local chapter of the society for the state of Illinois. The question was put to the vote and carried, the charter to be granted if the vote which will be taken by mail is favorable.

Preliminary reports were made on the following topics: Sizes of steam mains, data for hot water heaters and data for steam heaters in small buildings. The reports were referred to the Committee on Publishing to be printed and forwarded to members. The Society adjourned at five o'clock after a most successful meeting.

A banquet was given on Friday by the local members and for the first time in the history of the society, ladies were in attendance. The tables were arranged in the form of an H and V interlaced, the effect being very striking.

AN IMPROVED APPLICATION OF HOT-AIR HEATING.

By A. O. Jones, at the semi-annual meeting of the Heating and Ventilating Engineers on July 20.

An improved warm-air heating system which has rendered modern furnace work less complicated—an ever increasing number of practical and perfectly working heating plans—make it possible to describe a thoroughly tested and practical heating system; a system insuring the greatest amount of heat from a given quantity of fuel, and one enabling the operator to control the supply of warm air, directing it at will into the rooms to be heated, securing ventilation at a small expense and reducing the cost of installing warm-air furnaces, at the same time increasing their efficiency, is, in the writer's estimation, and in the face of rapidly disappearing prejudices, a system worthy of universal adoption.

The system under consideration differs from those in common use in that ventilation is secured in all rooms and the basement is not filled with warm-air pipes, but consists of the placing of any modern warm-air furnace of the correct size in an ordinary basement of reasonable height. The furnace to be centrally located and supplied with fresh air of an amount equal to at least 90 per cent of the combined area of the basement pipes, and the warm-air chamber connected by one-half the number of warm-air pipes ordinarily

used to improved warm-air registers placed in the wall of each room on the first floor, with a wall pipe continuing from the top of each register box to the rooms on the second floor, using for heating each two rooms—one on the first floor and one on the second—a basement pipe with capacity equal to the capacity of two pipes necessary for heating these two rooms separately. The manner of connecting the wall pipe to the top of the improved side wall register is shown in the illustration; also the method of pipe construction in the basement.

The advantages to be gained are that ventilation is secured in all the rooms, as these registers are provided with a double metal box, arranged with an air space between the inner and outer casing, and a ventilating opening, where air is drawn out of the rooms being heated and is conducted through the air space upwards, around the wall pipe—if single wall pipes are used—or through the space between the two casings of a double wall pipe when the latter are used.

The heat of the wall pipe causing an upward current insures a rapid movement of the foul air to a point in the attic directly above the registers, where it should be conducted through vent pipes to a chimney flue not used for any other purpose.

It will be seen that cellar air—as ordinarily used for protection when double wall pipes are used—is not allowed to enter the space between the two casings of the wall pipe, but, instead, air is drawn from the rooms; therefore, coal dust and fine ashes are not found escaping through the registers, as is sometimes the case with the systems that have been in use before the introduction of this system, which has been adopted by a great many furnace dealers who testify to the practicability of the system described.

The advantages of being able to utilize all of the warm air from the furnace in the first floor rooms when the second floor rooms are not in use should not be overlooked, for as is well known—with the old plan of installation—the closing of the second floor registers or the dampers in the pipes leading to the second floor registers, does not increase the amount of air delivered to the first floor rooms, but simply causes the air to be overheated, which is very objectionable—often giving rise to the argument which is advanced regarding vitiated air. While with this improved system the full amount of the air supply is constantly moving, and when the second floor rooms are not in use the fire in the furnace must necessarily be checked and a larger amount of air is supplied at a lower temperature.

When the second floor rooms are in use the increased velocity of the air in the perpendicular or wall pipes makes it possible to heat rooms on the first floor located some distance from the furnace, which is difficult without the assistance of the suction caused by the wall pipe.

The reduced number of warm-air pipes in the basement makes it possible to connect the larger warm-air conductor at a point on the bonnet of the casings where it can run straight to the register. This makes angles unnecessary, excepting in rare cases, and as a straight line is the shortest distance between two given points, the least possible amount of piping is used with very few angles; therefore, the friction and radiation is reduced to a minimum, which means cooler basements and warmer living rooms, to say nothing of the reduction of cost in installation.

This system, therefore, renders modern furnace work less complicated, insures perfectly working warm-air heating plants, securing the greatest possible amount of warm air from a given quantity of fuel, reduces the cost of installing furnaces, and makes failure almost impossible.

The American Register Company of Goshen, Indiana, has filed articles of incorporation with John Gothan, O. L. Fuller and George A. Riley as incorporators. The capital stock of the company is $10,000, fully paid in, and the company has organized by the election of Mr. Gothan as president, Mr. Fuller, vice-president, and Mr. Riley, secretary and treasurer. The main office and factory will be located at Goshen, and the Chicago office will also be maintained. Work will be begun at once on the reconstruction of the Cruikshank Brothers building for the use of the company, and a new addition, a foundry 42x147 feet, and a general assembling room, 38x40 will be erected. The company has purchased all the ground adjoining the factory site for general storage purposes. The work will consist in a complete line of hot air registers and the company will also operate a general foundry.

SEARCH YOURSELF.

Are you to blame for the loss of any of your trade to the Chicago retail cataloguers?

Stop and take a thorough inventory of yourself. Have you practiced any deceit on your trade? Have you had the poor judgment to charge two prices to different customers? Have you overcharged? Have you kept your promises to your trade and been courteous and obliging all the time, not part of the time?

Have you been fair in your dealings in produce or have you tried to make a profit both ways on the produce and on the goods, after the manner of the olden time retailer?

If you have not been at fault in any of these matters you should not have lost much trade to the cataloguers.

Have you been attending closely to your business or leaving it in the care of others? Have you made a practice of knowing your trade and getting out into the country, keeping in touch. Have you pushed your collections wisely and with a determination to have a settlement when agreed, that you might make the most of your capital? Have you advertised prices? Have you taken full advantage of discounts and bought sparingly, knowing that you could get goods from your jobbers in a few days?

When you go home to-night, search yourself and find if possible wherein you have failed.

Come down to your establishment the next day determined to enter the ranks of earnest trade fighters and to get right and stay right.

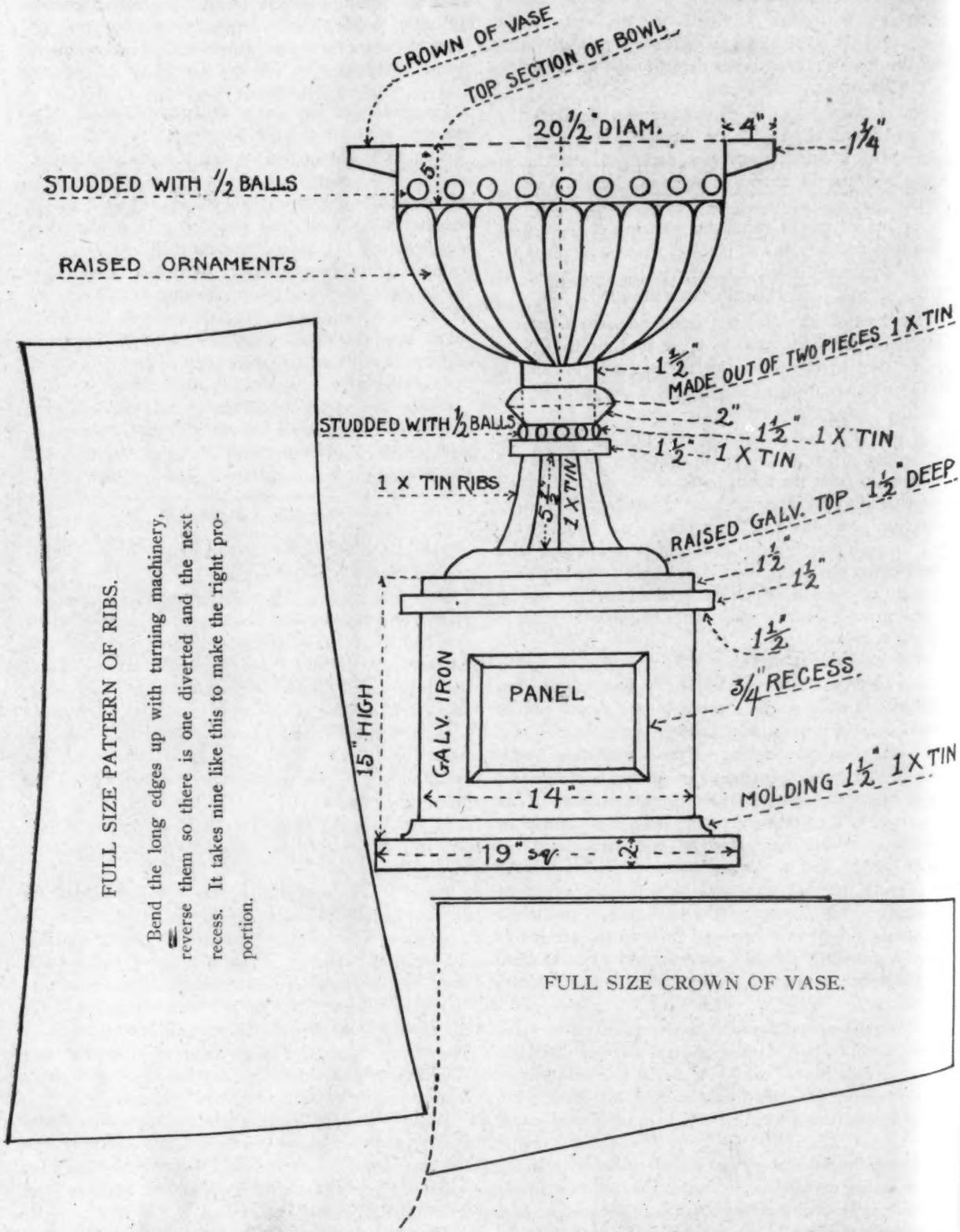
The battle is sure to be a hard one before the retail catalogue business adjusts itself or is beaten by retail merchants, jobbers, manufacturers and bankers working hand in hand.—Minneapolis Commercial Bulletin.

Tinshop

To The American Artisan:

I have been a constant reader and also subscriber of your most valuable paper for the past twenty years or more, and to miss a copy would be like missing my dinner. I look for it. I have never contributed anything to your paper in all these years, and I therefore beg to enclose a picture of a flower vase I made out of galvanized sheet iron. Perhaps some of the brother tinners would like to make one for their front yard.

The bowl is made out of the largest bread raising pan and the top or wire edge cut off and a 5-inch strip of galvanized iron added to the top to give it the proper height or depth. The ornamented ribs are hammered out on a raising block. They must be touching one



another. When soldered on the outside of bowl raise the tops of ribs deep on top and gradually flatten out at lower end. The inside of the bowl should be lined with galvanized iron as the tin pan would soon rust. Better still if you can get an all galvanized bowl large enough. In the base is a 2-inch oak plank to make the weight. Make a ¾-inch pipe all through from bottom of bowl to end of plank to drain the surplus water.

A New Flower Vase.

After the vase is finished, give three coats of white paint, cover with white sand or marble dust before the last coat is dry. This will make this vase look like white stone. If any one of my brother tinners wants a little more explanation, I will gladly answer all inquiries. Respectfully,

H. W. KUEHNER,
Foreman of F. Geele Hardware Company.
819 Ontario avenue, Sheboygan, Wisconsin.

SEEKS INFORMATION.

To THE AMERICAN ARTISAN:

Am seeking information in regard to the proper way to put on a standing seam I. C. all steel tin roof, double seamed. I would like to hear from experienced tin roofers. If a standing seam I. C. tin roof is locked together the twenty-eight inch way and crossed seams soldered, making the strips of roofing twenty-eight inches wide and sides turned up one and 1¼ inches for double seam standing seam, leaving the strips when seams are turned and laid 25¾ inches. Is this just as good a job as when tin would be laid in twenty inch strips or 17¼ when done? Will the tin when laid the twenty-eight inch way, buckle between seams and rattle when the wind blows?

I would be pleased to hear from some brother tinners on this subject.

Yours truly,
CHARLES KRUSE.

A GOOD HOUSE ORGAN.

The "Cortright Metal Shingle Advocate," that cheery house organ of the Cortright Metal Roofing Company of Philadelphia, Pennsylvania, and Chicago, has been received and is as usual replete with good things. The cover design is exceedingly good, showing in its natural colors a house, roofed with the Cortright metal shingles. The magazine is embellished with beautiful illustrations and the text is admirable. The Advocate has a circulation of 27,000 and is indicative of the interest taken in the metal shingle roof proposition.

"Leaks" is the appropriate title of the editorial and the article discusses both the metaphorical and literal meaning of the word. It tells of stories that leak but argues that the story the reader is most interested in is the top story of his house. When it leaks there is no resultant scandal in the neighborhood, but it makes just as much trouble at home as the other kind of leak. There is a roof repair bill and a plastering bill, and a papering bill and perchance some carpets and pictures and furniture to replace or grieve over. The editorial goes on to say that the Cortright Company offers a perfect policy of insurance against this kind of loss. Nothing but "malice aforethoguht" can bring about a leak in the Cortright roof.

"Fairer Than the Fairy" is one of the most amusing Limericks we have read in many a day and would bring a smile to the face of the Sphinx. The entire magazine, however, is excellent and well worth sending for. Mention THE AMERICAN ARTISAN when writing.

A GOOD CATALOGUE.

The catalogue of The Canton Manufacturing Company of Canton, Ohio, has come to hand and is as artistic and impressive as such a work can possibly be. The cover is exceptionally attractive in design and color, and the press work and illustrations are perfect. The catalogue opens with an announcement to users of sheet metal building material and a page is devoted to terms.

Although hundreds of designs are shown, they represent only a very small part of the various forms and uses to which sheet metal can be adapted and the company state that they will be glad to quote their best prices on special work or design at any time plans or specifications are sent to them.

The company's plant is equipped with the best and latest machinery and they are consequently at all times in a position to quote prices as low as are consistent with a high grade of goods. The catalogue shows a great variety of finials and water vanes, the designs being exceptionally artistic. These are made of galvanized iron but the company will be glad to quote prices on copper on application.

The "Burt" Flat Glass Top ventilator is a very effective remedy for insufficient draft. The "Burt" will prevent the great annoyance frequently caused by downward currents deflected from surrounding buildings or other high objects which check the escape of smoke from the chimneys.

A NEW PLANT.

A great increase in business has compelled the S. Keighley Metal Ceiling & Manufacturing Company, of Pittsburgh, to find new and considerably larger factory quarters. At Follansbee, West Virginia, a new town on the Ohio river, about forty miles from Pittsburgh, there has just been completed for them a fireproof factory of the most modern and best equipped sheet metal working plants in the country.

This new building—which has about four times the capacity of their former plant—may really be called a model factory. It is a two-story fireproof building constructed of re-enforced concrete and lighted and ventilated on all sides by large windows. New machinery, including an eight-ton electric crane, has been installed.

In the old plant the company was turning out daily, not only a large quantity of the lap-joint, but also many squares of their famous lock-joint metal ceiling. Still working day and night, they could not keep up with the orders for ceiling. Now, they expect not only to be able to keep up to the orders, but also to carry a large stock of all their numerous designs. This naturally will mean prompt shipments.

The Phoenix hollow sheet metal fireproof window—well known by architects and builders—is another of the Keighley company's products. One of the largest contracts for fireproof windows ever let in this country was awarded for the Phoenix window, and was handled in the former factory—in fact the contract was completed ahead of the specified time.

The head office will be retained at the present location in Pittsburgh, and the branches in New York, Boston, Baltimore and Washington.

NOTES AND QUERIES.

SHEET IRON HEATERS.

From Charles Bisno, Kenosha, Wisconsin.

Where can I get sheet iron heaters?

Ans.—Cole Manufacturing Company, Western and Bross avenues, Chicago; Belleville Stove and Range Company, Belleville, Illinois; John Kontny, 65 North Desplaines street, Chicago; The Channon-Emery Stove Company, Quincy, Illinois; The Comstock-Castle Stove Company, Quincy, Illinois; The Thomas White Stove Company, Quincy, Illinois; The Sheridan Stove Manufacturing Company, Quincy, Illinois; Ringen Stove Company, St. Louis, Missouri; Simmons Hardware Company, St. Louis, Missouri; The George W. Trout Hardware Company, 174 East Lake street, Chicago.

ICE MAKING MACHINERY FOR ARTIFICIAL ICE.

From Elliott Manufacturing Co., Warren, Illinois.

Will you please give us the names of firms who manufacture ice making machines for making artificial ice?

Ans.—Fred W. Wolfe Company, 139 Rees street, Chicago; Featherstone Foundry and Machine Company, 303 Railway Exchange building, Chicago; York Manufacturing Company, 1060 Monadnock block, Chicago; Healy Ice Machine Company, 641 Thirtieth street, Chicago; Rebsamen & Almeroth, 1071 Elston avenue, Chicago; Hastings & White, 154 Lake street, Chicago.

BALE TIES.

From Jaehning Brothers, Redwood Falls, Minnesota.

Where can we get bale ties?

Ans.—From Adam's Steel & Wire Works, Joliet, Illinois; Consolidated Fence Company, Iowa City, Iowa; Crawfordsville Wire & Nail Company, Crawfordsville, Indiana; Des Moines Bale Tie Company, Des Moines, Iowa; Dillon-Griswold Wire Company, Sterling, Illinois; George Ertel Company, Quincy, Illinois; Grand Crossing Tack Company, Grand Crossing, Chicago, Illinois; Keystone Fence Company, Peoria, Illinois, and the New Process Steel & Wire Company, East St. Louis, Missouri.

METHOD OF TINNING A SOLDERING IRON.

From "William," Joliet, Ill.

Please inform me how to tin a soldering iron?

Ans.—Dress the iron down with a smooth file in the usual way, then heat it warm enough to melt a tallow candle. Rub a candle over the surface of the iron and it will be found to work well.

TINNERS' SOLDER.

From J. V. Chryst, Morrison, Illinois.

Can you or any of your readers tell me what my trouble is and how it can be remedied?

I have a quantity of plumbers' wipe joints and also cup joints of tinners' solder and quite a lot of tin foil. I thought I would make tinners' solder of it, but it got hard and grainy; it would break when bending. What is the trouble?

Ans.—Will one of our readers please explain?

WESSELL'S DOUBLE EDGING ROLLS.

From Griffith & Schell, Macomb, Illinois.

Where can we get Wessell's Double Edging Rolls for turning the double edge for elbows to fit on the small turning machine?

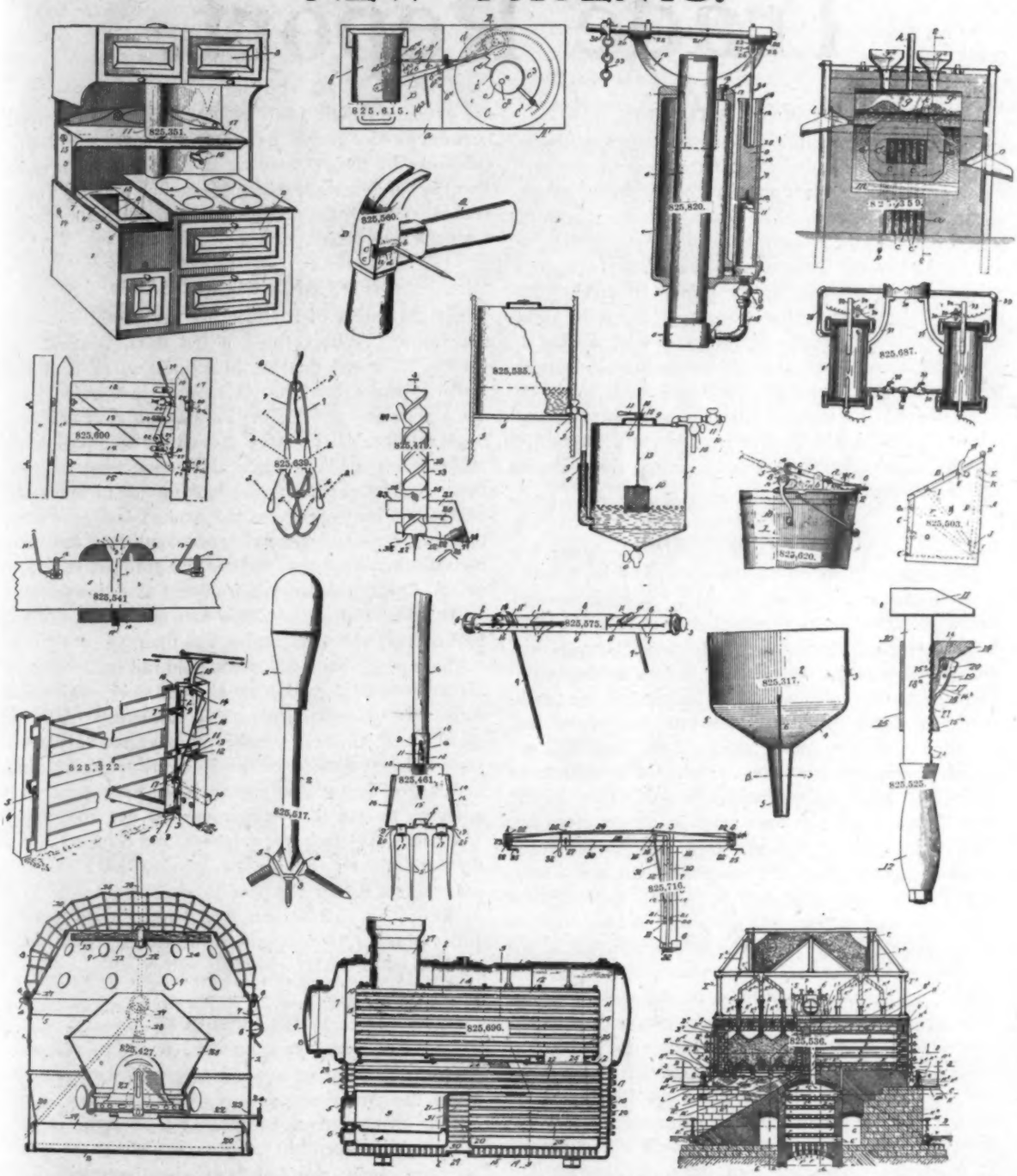
Ans. The Niagara Machine & Tool Works, Buffalo, New York.

ITEMS.

The Willis Manufacturing Company of Galesburg, Illinois, have recently issued their number five catalogue on architectural sheet metal work. Some very handsome designs for store fronts in sheet metal work are shown, the effect being both artistic and pleasing. The patented designs for ceilings and ceiling centers show excellent taste and altogether the catalogue is one that should find a permanent place on the files of every dealer.

The A. C. Rulofson Sheet Metal Works has been established at San Francisco, to manufacture all classes of sheet metal structural work. The factory is located on the corner of Eighth and Brannan streets, 75 feet front and 215 feet deep. A. C. Rulofson of the concern was for many years manager of the buying and selling department of Baker & Hamilton, wholesale hardware dealers in San Francisco. He is a native son of San Francisco and has lived there all his life. His wide acquaintance and high standing in the community ought certainly to insure the success of the enterprise. Until further notice communications should be addressed to P. O. Box 231, Berkeley, Cal.

NEW PATENTS.



825,351—Range. Thomas T. Rockett, Philadelphia, Pa. Filed Dec. 19, 1904. Serial No. 237,596.

825,359—Electric furnace. Frederick T. Snyder, Oak Park, Ill. Filed July 15, 1904. Serial No. 216,662.

825,427—Vehicle heater. Charles A. Snowden, Beaver Dam, Wis. Filed March 16, 1905. Serial No. 250,465.

825,479—Auger bit. James T. Parker, Hattiesburg, Miss. Filed Jan. 10, 1906. Serial No. 295,514.

825,503—Mail box. William H. Zylstra, Grand Rapids, Mich. Filed April 14, 1905. Serial No. 255,603.

825,517—Screw driver. Milo J. Cowgill, Victor, Colo. Filed Nov. 14, 1905. Serial No. 287,366.

825,525—Wrench. George E. Dornon, Willowgrove, W. Va. Filed April 17, 1903. Serial No. 153,108.

825,535—Acetylene gas generator. Daniel W. Hazeltine, Conneaut, Ohio. Filed Dec. 29, 1905. Serial No. 293,836.

825,536—Continuously operating retort furnace. Richard C. Hills, Denver, Colo. Filed July 3, 1905. Serial No. 268,-258.

825,575—Lawn sprinkler. Julius A. Barkelew and Cecil L. Grigsby, Redlands, Cal. Filed Aug. 2, 1905. Serial No. 272,423.

825,541—Process for uniting metal pieces. Charles F. Jacobs, Chicago, Ill. Filed Nov. 6, 1905. Serial No. 286,022.

825,560—Hammer. James H. Smith, Salisbury Mills, N. Y. Filed Feb. 21, 1906. Serial No. 302,260.

825,615—Automatic regulating means for furnaces. Finis E. Roach, Chicago, Ill. Filed Sept. 29, 1904. Serial No. 226,449.

825,620—Mop wringer. Mathew Timothy, Davenport, Iowa. Filed March 8, 1905. Serial No. 249,131.

825,639—Fish hook. Clarence M. Curtis, Woodstock, Ill. Filed April 7, 1905. Serial No. 254,422.

825,687—Steam and gas generator. Frederick A. Weigel and Isaac Wolf, Johnetta, Pa. Filed Oct. 5, 1905. Serial No. 281,524.

825,690—Gate latch. Clark O. Young, Traer, Iowa. Filed Jan. 7, 1905. Serial No. 240,036.

825,696—Steam boiler. Walter A. Berry, Chattanooga, Tenn. Filed March 20, 1906. Serial No. 307,136.

825,716—Gate. Albert Y. Fry, Gallatin, Tenn. Filed Feb. 15, 1906. Serial No. 301,172.

825,820—Damper regulator. Claus P. Geritz, Kingsland, N. J. Filed Aug. 12, 1905. Serial No. 273,966.

Trade Report.

THE HARDWARE SITUATION.

Midsummer consumption of hardware products notwithstanding the holiday week, fails to record the curtailment of former years and a record breaking month is already anticipated. The passing of the inventory period has already brought an avalanche of orders to Heavy Hardware jobbers, and that stocks are generally low, is indicated by the prompt shipments demanded. In builders' hardware no relief is in sight and practically all of the manufacturers are unable to make deliveries in less than three months. Advances ranging from 5 to 10 per cent have been made on rules, plumbs and levels, Tri-squares, bevels, etc., and tubular goods and deliveries from manufacturers are so slow that jobbers experience much difficulty in keeping up their stocks.

CONDITION OF TRADE.

The manner in which the trade keeps up its volume, notwithstanding the summer, with its vacations and other incidental interruptions to business, is the subject of frequent remark. While manufacturers are probably not as far behind their orders as they were a month or two ago, and their shipments are made somewhat more promptly, they are, with some few exceptions, working under pressure and unable to accumulate stocks to any great extent. The volume of business is not only exceptional for this time of the year, but would be a large business for any season. Orders are coming in freely from the jobbing trade and the larger retailers, but from the South and Southwest they are noticeably heavy, indicating prosperous conditions and an expanding trade. In this state of things prices are not only well maintained, but in not a few lines advances are taking place. There is, however, a conservative disposition on the part of manufacturers, who refrain from making unnecessary advances in their goods, and as a result the market as a whole is on a moderate level considering the cost of the raw material and labor. Many manufacturers are embarrassed by the difficulty in obtaining steel, which the mills are unable to supply in sufficient quantities to meet the requirements of their customers. The question as to how the crops will turn out is naturally canvassed with the usual solicitude, as so much depends on the harvests, but fortunately the outlook is promising for an abundant yield. While the great grain crops of the country are of prime significance, there is so much diversity of agricultural interests, and the minor products are of such value and importance that there is little reason to apprehend and serious interruption of existing prosperity on account of any local and partial disappointment in the results of harvest. Enterprise in general certainly continues to manifest itself in liberal expenditures, and while the railroads of the country are almost constantly in the market, and public improvements are made with generous outlay, the manufacturing and commerical classes are extending their facilities, and building in general continues on an almost unprecedented scale. With this condition of things at home it is gratifying to note that the foreign trade of the country is making a new record, in which the products of iron and stele occupy a conspicuous place.

IRON AND STEEL BARS.

Manufacturers of bar iron are very optimistic over the future. Within the last ten days, demand has greatly increased due to the expiration of contracts made a year ago. The six months just ended were not particularly active from the standpoint of new tonnage as most of the large consumers were operating on contracts made in 1906. Now that most of these have expired, producers are looking for an increased volume of business over that booked last year since present prices and general trade conditions are more inviting than they were in June and July last year. Mill prices, Chicago delivery, are quoted as follows:

Bar iron, 1.66½c; soft steel bars and bands, 1.66½c, half extras; soft steel angles, less than 3 x 3, 1.76½c; hoops, 2.06½c base, full extras; old rail stock, 1.65½c. Jobbers report a good demand from stock, with prices firm. We quote bar iron, 2.10c, full extras; soft steel rounds and squares, 3 inches and larger, $2 per 100 pounds base; flats, 2 inches to 4 inches by 1⅛ inch and larger, $2 per 100 pounds base; flats, 2 inches to 4 inches by 1⅛ inch and larger, $2 per 100 pounds base; flats, 4½ inches x 5 inches, and 6 inches x 5-16 inch and thicker, $2 per 100 pounds base; all ovals, half rounds, $2 per 100 pounds base; steel bands, $1.85 to $1.95 half extras; soft steel hoops, $2.30 to $2.40 full extras. Other sizes not mentioned above, $1.85 per 100 pounds base, plus half extras.

WIRE PRODUCTS.

The scarcity of raw material is the most serious problem confronting manufacturers of wire products. Even the American Steel & Wire Company is curtailing its operations because of a shortage in rods. Although independent mills are feeling the dearth the most keenly, many of them being dependent on this concern for their supply while a number of plants are shut down for repairs many more are operating to only part of their capacity by reason of this shortage. There is no evidence of a decline in demand and manufacturers anticipate doing a larger business in July than they have ever done before in this month, despite the present handicap in the scarcity of labor and steel. Prices are firm but without change and we quote mill shipments, Chicago delivery, as follows:

Wire nails, $2; painted barbed wire, $2.15; galvanized barbed wire, $2.45; smooth annealed wire, $1.85; smooth galvanized wire, $2.15; polished staples, $2.15; galvanized staples, $2.40. Carload lots to retailers, 5 cents higher than above prices; less than carload lots, 15 cents higher.

OLD MATERIAL.

Mills are beginning to sound the market and it seems that the long period of comparative inactivity is nearly over. Recent lists of twenty thousand tons of the Pennsylvania and ten thousand tons of the B. & O. were taken at good prices. We quote f. o. b., Cleveland, as follows: Gross tons in the first paragraph.

Old iron rails	$20.00 to 21.00
Old steel rails (over 6 feet)	15.50 to 16.00
Old steel rails (under 6 feet)	16.00 to 16.50
Old car wheels	16.50 to 16.75
Steel boiler plate	12.00 to 13.00
Steel axles	19.00 to 20.00
Malleable iron (railroad)	15.00 to 15.50
Malleable iron (agricultural)	13.00 to 13.50
Heavy steel	15.00 to 15.50
Country mixed steel	13.00 to 13.50

We quote net tons as follows:

No. 1 R. R. wrought	$15.50 to 16.00
No. 1 busheling	13.00 to 13.50
No. 1 machine cast	13.50 to 14.00
Iron axles	22.00 to 23.00
Axle turnings	10.50 to 11.00
Wrought turnings (free from cast)	9.00 to 9.50
Grate bars	10.00 to 10.50
Pipes and flues	11.50 to 12.00
Tank iron	10.50 to 11.00
Hoop and band iron	7.50 to 8.00
Sheet iron	6.50 to 7.00
Wrought drillings	9.00 to 9.50
Stove plate	10.00 to 10.50
Cast borings	7.00 to 7.50

PIG IRON.

Unusual strength has been imparted to the local market by the decreased production of Southern furnaces as a result of the labor famine in the South. The Tennessee Republic interest is the principal in this respect. This company has three furnaces ready to blow in, two at Bessemer and one at Thomas, but lacks the ore and coat with which to start with. Other furnaces are suffering in proportion to their requirements, and necessarily deliveries from the South have been seriously retarded. The demand for spot iron has increased, Northern furnaces feeling the brunt of it. We have revised our quotations as follows:

Lake Superior charcoal	$19.00
Northern Foundry No. 1	19.00
Northern Foundry No. 2	18.50
Northern Foundry No. 3	18.00
Northern Scotch Foundry	18.75
Ohio Strong Softeners No. 1	18.80
Ohio Strong Softeners No. 2	18.30
Southern Foundry No. 1	17.65 to 17.90
Southern Foundry No. 2	17.15 to 17.40
Southern Foundry No. 3	16.65 to 16.90
Southern Foundry No. 4	16.15 to 16.40
Southern No. 1 Soft	17.65 to 17.90
Southern No. 2 Soft	17.15 to 17.40
Southern Gray Forge	15.40 to 15.65
Southern Mottled	15.15 to 15.40
Southern Silveries (4 per cent to 6 per cent Silicon)	17.90 to 18.40
Jackson Co. Silveries, 8 to 10 per cent Silicon	23.30
Alabama and Georgia Car Wheel	23.90 to 24.40
Malleable Bessemer	18.50 to 18.80
Standard Bessemer	19.30
Basic Iron	18.85

Rogers, Brown & Company will say in their weekly letter:

Business during the week, while of good tonnage and well distributed, has not been marked by any special sales of unusual size or any other unexpected feature. Conditions are eminently satisfactory both to buyer and seller and this is reflected in the general tone of reports throughout the country. As we advance into the last half, the outlook for steady market is improved almost daily. Demand for iron generally is strong and furnaces have little or nothing now unsold for the third quarter, and sales for the last half have been freely made. Consumption, which has heretofore proceeded as a record breaker, shows no signs of diminution, whereas production, as shown by statistics available for June, is falling behind. During that month there was 100,000 tons approximately less production than in April, the next thirty-day month previous. June was a trying month for furnaces, besides being a short one, and it is hardly likely that this reduction will be duplicated to such an extent. However, the fact that in the face of enormous consumption and sold-up condition of furnaces, the available supply should be curtailed in the midst of the year to this extent, is worthy of very serious consideration.

Bessemer and basic are still scarce and it is not expected that any increase in the supply of those grades will come until late in the fall. It is reported that the entire capacity of the Bessemer furnaces of western Pennsylvania and eastern Ohio has been engaged for the next four months, and it is believed that a sharp advance in prices of this grade will soon be recorded.

Prices are very firm for both Northern and Southern product, in some cases advances having been recently registered. Shortage of labor is cutting a big figure, in the South particularly, and will operate strongly against normal output in that district during several months to come.

Last November we remarked on the exceptionally favorable report of commercial failures in this country during the month of October, 1905. An interesting item at this time is this same report for June, the most satisfactory of its kind as to the amount of defaulted indebtedness of any month since last October. As current mercantile conditions are best indicated by the very last period for which comparison is available, this is simply another bit of evidence as to general conditions and should add to the confidence which is felt in the future.

Coke shows up strongly each week. There is a good buying movement among the foundries and the activity in the leading districts is unusual. Prices are firm and a number of producers are sold up to such an extent that they do not care to consider business for thirty to sixty days.

Matthew Addy & Company will say in their weekly letter:

While in comparison with the few preceding it the past week has seemed quiet, the situation is unquestionably very strong. In the South the extreme shortage of labor is becoming a source of great worry, and a number of furnaces that have undergone repairs and are ready and anxious to blow in, find this impossible owing to the insufficient supply of ore and fuel. Production is still very much below the demand, and higher foundry grades are scarce. This is especially true of No. 2 foundry and 2 soft, which grades are absolutely impossible for anything like prompt shipment. Home consumption in the South continues at a lively rate, and the mills, which are extraordinarily busy for this season of the year, are taking a big part of the Southern output.

The Ohio furnaces are practically sold up through the entire third quarter. Most of them are running full but are steadily falling behind on shipments.

Inquiries are mostly for small lots ranging from carloads to a few hundred tons for prompt shipment, and in many instances come from large consumers who failed to cover during the recent activity, and who still seem to prefer buying as the iron is needed. They are finding this method extremely unsatisfactory owing to the dearth of spot iron, and are crowding the furnaces by telegraph and telephone to hurry shipments. The basic and Bessemer market seems to grow stronger each day. In the most important sections these furnaces are practically sold up for the balance of the year. The little that has been available during the past few days has brought top-notch prices.

Foundry and furnace coke is exceptionally strong and prices firm.

Altogether the outlook is very propitious, and it is impossible for us to see the remainder of 1906 through other than rose-colored glasses.

Current Hardware and Metal Prices.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly.

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box
IC	14x20	$7 25
IX	14x20	8 25
IXX	14x20	9 48
IXXX	14x20	10 68
IXXXX	14x20	11 88
IC	20x28	14 50
IX	20x28	16 50
IXX	20x28	18 95
IXXX	20x28	21 35
IXXXX	20x28	23 75

COKE PLATES.

Cokes, 180 lbs	IC	20x28	$9 00
Cokes, 200 lbs	IC	20x28	9 35
Cokes, 216 lbs	IC	20x28	9 75
Cokes 270 lbs	IX	20x28	11 70

PIG IRON.

Lake Sup. Charcoal	$19 00@$19 25
North'n Fdy., No. 1	18 80@ 19 05
North'n Fdy., No. 2	18 30@ 18 55
North'n Fdy., No. 3	17 80@ 18 05
Northern Scotch Fdy.	18 80@ 19 05
Ohio Strong Softeners, No. 1	19 80@ 20 05
Ohio Strong Softeners, No. 2	19 30@ 19 55
Southern Fdy., No. 1	18 15@ 18 40
Southern Fdy., No. 2	17 65@ 17 90
Southern Fdy., No. 3	17 15@ 17 40
Southern Fdy., No. 4	16 65@ 16 90
Southern No. 1 Soft	18 15@ 18 40
Southern No. 2 Soft	17 65@ 17 90
Southern Gray Forge	16 15@ 16 40
Southern Mottled	15 90@ 16 15
Southern Silveries, 4 to 6 per cent Silicon	17 90@ 18 15
Jackson Co. Silveries, 8 to 10% Silicon	22 30@ 23 30
Ala. and Geo. Car Wheel	23 90@ 24 40
Malleable Bessemer	18 30@ 18 50
Basic Iron	18 85

BLACK STEEL SHEETS.

Nos. 11-12	per 100 lbs	$2 00
Nos. 13-14	per 100 lbs	2 05
Nos. 15-16	per 100 lbs.	2 10
Nos. 17-21	per 100 lbs.	2 15
Nos. 22-24	per 100 lbs.	2 20
Nos. 25-26	per 100 lbs.	2 25
No. 27	per 100 lbs.	2 30
No. 28	per 100 lbs.	2 40

GALVANIZED.

Nos. 10-11	per 100 lbs.	$2 35
Nos. 12-14	per 100 lbs.	2 45
Nos. 15-16	per 100 lbs.	2 55
Nos. 17-21	per 100 lbs.	2 70
Nos. 22-24	per 100 lbs.	2 85
Nos. 25-26	per 100 lbs.	3 05
No. 27	per 100 lbs.	3 25
No. 28	per 100 lbs.	3 45

POLISHED SHEET STEEL.

No. 24	per 100 lbs.	$4 60
No. 26	per 100 lbs.	4 70
No. 27	per 100 lbs.	4 80
No. 28	per 100 lbs.	4 90

SMOOTH STEEL.

Wood's Smooth,	No. 20	$2 90
" "	No. 22-24	2 95
" "	No. 25-26	3 00
" "	No. 27	3 05
" "	No. 28	3 15

PATENT PLANISHED SHEET STEEL.

Patent Planished Sheet Steel. "A" $10 20, "B"	$9 20
Dickey Planished Sheet Steel	8½c

GALVANIZED IRON.

Regular Sizes.

No 16, per 100 lbs.	$3 20
Nos. 18 & 20, per 100 lbs	3 35
Nos. 23 & 24, per 100 lbs	3 70
No. 26, per 100 lbs	3 00
No. 27, per 100 lbs	3 50
No. 28, per 100 lbs	4 70
No. 30, per 100 lbs	5 90
Nos. 22 & 24 x 36 in., per 100 lbs	3 10
No. 26 x 36 in., per 100 lbs	3 90
No. 27 x 36 in., per 100 lbs	4 10
No. 28 x 36 in., per 100 lbs	4 30

SOLDER.

XXX Guaranteed ½ & ½ . per lb.	29 c
Commercial ½ & ½ per lb.	28½c
No. 1 Plumbers	27 c

SHEET ZINC.

600 lb. Casks	case, per cwt,	0 90
300 lb. Casks	per cwt.	7 95
Sheets	per cwt.	7 70

COPPER.

Copper	base, 21c

TIN PIGS AND BARS.

Banca, pigs, per lb	50c
Straits, pigs, per lb	50c
Straits in bars, per lb	52c

LEAD.

American Pig	$4 60@$4 62½
Bar	6½c
National (White) brands (in less than 100 lb. lots), per lb	7½c
Sheet.	
Full coils per 100 lbs.	$7 00
Cut coils per 100 lbs.	7 25

HARDWARE.

ADZES.

Carpenters'.	
Triumph	40&10%
Cutmore	50&5%
Coopers'.	
Barton's	20%
White's	15%
Railroad.	
Triumph	40&5%
Cutmore	50%
Ship.	
Triumph	33⅓&5%
Cutmore	40%
White's	12½%

AMMUNITION.

Caps, Percussion—per 1,000.	
F. L. Waterproof, 1-10s	40c
G. D	35c
Musket	60c
Cartridges.	
Winchester Rim Fire Ctgs	50&3%
Winchester Cent Fire, Pistol and Rifle	25&3%
Winchester Cent Fire, Military and Sporting Ctgs	15&8%
Winchester Blank Ctgs. 22 cal.	$1 25
Winchester Blank Ctgs. 32 cal., C. F.	4 60
Winchester BB Caps, Rnd. ball	1 50
Winchester BB Caps, Conical ball	1 95
Winchester Cent. Fire, Military and Sporting Ctgs	15&8%
Primers.	
Berdan Primers	$1 00
Winchester Primers	20%
Shells.	
New Rival Empty Paper Shells, 10 and 12 gauge	25%
New Rival Empty Paper Shells, 16 gauge	20%
Repeater Empty	20%
Leader Smokeless	25%
Winchester Repeater Loaded Shells	40&5%
Winchester Leader	40-10&10%
New Rival Loaded Shells	33⅓ & 11%
Gun Wads—per 1,000.	
Winchester Gun Wads	15%

Powder.	Each
DuPont's Sporting, kegs'	$4 50
" " ½ kegs	2 50
" " ¼ kegs	1 40
Dupont's Sm'k'less. 50-lb. drum	22 45
" " 25-lb. kegs	11 25
" " 12½-lb. kegs	5 80
" " 6¼-lb. kegs	2 97
" " 1-lb. cans	51
Shot.	
Drop shot, sizes smaller than B, 25-lb. bags, per bag	1 70
Drop shot, B and larger sizes, 25-lb. bags, per bag	1 95
Buck Shot, 25-lb. bags, per bag	1 95
Chilled Shot, 25-lb. bags, "	1 95

ANCHORS.

Expansion Screw Anchors	10%

ANVILS.

Trenton, 70 to 80 lbs	9½c per lb
Trenton, 81 to 150 lbs	9½c per lb

ASBESTOS.

Board and Paper	33⅓%

AUGERS.

Boring Machine	70%
Irwin's	40&10%
Carpenters' Nut	70%
Hollow.	
Bonney's—list $30.00	75&5%
Stearn's, No. 3 "	36 00
Post Hole.	
Digwell, 8-inch per doz.	12 50
Iwan's Post Hole and Well	40&5%
Vaughan's, 4 to 9-in., per doz.	6 25
Rafting.	
Snell's	50&5%
Ship.	
Ford's, with or without screw	40-5%
Snell's, " " "	40-5%

AWLS.

Brad.		
No. 3 Handled	per doz.	$0 40
No. 1050 Handled	"	80
Shouldered, assorted, 1 to 4,	per gro.	1 20
Patent asst'd, 1 to 4	"	1 20
Harness.		
Common	"	1 20
Patent	"	90
Peg.		
Shouldered	per gro,	$1 20
Patent	"	60
Scratch.		
No. 1, handled	"	4 80
No. 15, socket handled	per doz.	1 25
No. 7 Stanley	"	1 80
Sewing.		
Common	per gro.	90
Patent	"	90

AXES.

Boy's Handled.		
Lippincott, 3 lb	per doz.	$6 50
Cutmore	"	6 75
Broad.		
Triumph, West, Pat	40-10&5%	
Triumph, Can. Pat	50&10%	
Firemen's (handled)	per doz	$13 00
Miners' (handled)	"	6 50
Single Bitted (handled).		
Silver Eagle, 3 to 4 lbs.,	pr dz.	$10 50
Cutmore " "	"	8 75
Keystone " "	"	9 25
Forest Clipper " "	"	8 50
Premier " "	"	6 75
Crescent " "	"	5 75
Single Bitted (without handles).		
Cutmore,	per doz. 3 to 4 lbs.	$6 75
Forest Clipper, "	"	6 50
Keystone, "	"	7 25
Perfect "	"	6 75
Premier "	"	5 00
Silver Eagle "	"	8 25
Double Bitted (without handles).		
Cutmore,	3 to 4 lbs. per doz.	$8 75
Silver Eagle, "	"	10 25
Keystone "	"	9 50

The above prices on axes of 3 to 4 lbs. are the base prices.
3½ to 4½ lbs. advance 25c.
4 to 5 lbs. advance 50c.
4½ to 5½ lbs. advance 75c.

BAGS, PAPER NAIL.

Pounds	10	16	20	25
Per 1,000	$3.00	4.50	5.50	6.00

BALANCES, SPRING.

Frary's	50%
Pelouze	20%

BARS, CROW.

Pinch or Wedge Point	cwt. $3 25

BASKETS.

Clothes.		
Small Willow	per doz.	$5 75
Medium "	"	6 50
Large "	"	7 25
Galvanized Iron.	½ bu. 1 bu. 1½ bu	
Per doz.	$4 00 5 50 7 00	

BEATERS.

Carpet.	Per doz
No. 11 Coppered Spring Wire	$1 00
No. 12 Tinned Spring Wire	80
No. 10 Woven Wire	1 10
Egg.	Per doz.
No. 50 Imp. Dover	$0 75
No. 102 " " tinned	85
No. 150 " " hotel	1 50
No. 10 Heavy hotel tinned	2 10
No. 13 " " "	3 30
No. 15 " " "	3 60
No. 18 " " "	4 50

BELLOWS.

Blacksmiths'	65%
Hand.	
8 inch per doz.	$8 00
10 inch "	10 00
Moulders'.	
12 inch "	13 00

BELLS.

Call.	
3 in. Nickeled Rotary Bell, bronzed base per doz.	$5 00
Cow.	
High Grade	60&10%
Kentucky	70%
Door.	Per doz.
New Departure Automatic Rotary.	$6 00
3 in. Old Copper Bell	4 00
3 in. Old Copper Bell, fancy	6 00
3 in. Nickeled Steel Bell	4 50
3½ in. Nickeled Steel Bell	5 00
Hand.	
Hand Bells, polished	50@50&5%
White Metal	50%
Nickel Plated	40%
Swiss	60&5%
Silver Chime	33⅓%
Miscellaneous.	
Church and School, steel alloy	50&10%
Farm, lbs. 40 50 75	100
Each $1.10 1.40 2.00	2.75

BEVELS, TEE.

Stanley's, rosewood handle, new list	40&5%
Stanley's iron handle	40%

BINDING, OILCLOTH.

Zinc	80&5%
Brass	75%
Brass Plated	75&10%

BITS.

Auger.	
Extra Double Spur	70&10%
Ford's Car and Machine	40&10%
Triumph	50&5%
Ford's Ship	40&10%
Irwin	50&5%
Russell Jenning's	25&10%
Clark's Expansive	60&5%
Steer's " Small list, $22.00	30%
" Large " $26.00	30%
Irwin Car	45%
Ford's Ship Auger pattern Car	40&10%
Center	40&10%
Countersink.	
No. 18 Wheeler's per doz.	$1 25
No. 20 " "	1 75
American Snail head. "	75
" Rose " "	90
" Flat "	75
Mayhew's Flat "	1 25
" Snail "	1 25
Dowel.	
New Jennings	40&10%
Gimlet.	
Standard Double Cut	60%
German Pattern per doz.	$0 60
German "	65
Gouge "	80
Spoon "	80
Countersink "	1 00
Reamer.	
Jenning's Square "	2 50
Standard Square "	75
German Octagon "	75
Screw Driver.	
No. 7 Common "	50
No. 1 Triumph "	1 25
No. 2 " "	1 50
No. 340 Shepardson's "	1 25
No. 1 Smith's "	1 25

BLACKING, STOVE. (See Polish)

BLADES, SAW.

Butchers'.
Standard ¾ & 1½ in. 40%
Clock Spring 40%
Star 15%
Coil ..... each $1 50

Hack.
Disston's ..... 25&5%
Flexible ..... 33⅓&5%
Cutmore 33⅓%

Wood.
Jackson's ..... per doz. $2 25
Disston's—No. 6, 16, 26 & 045 .. 4 25
Triumph 3 50
Forest Clipper 3 00

BLOCKS.

Snatch.
Wooden ..... 55&10%
Steel ..... 40&10%

Tackle.
Iron Strapped ..... 70&10%
Coin Steel ..... 60&10%

BOARDS.

Stove 40%

Wash.
Globe, single ..... per doz. $2 25
" double ..... " 2 75
Magnolia ..... " 2 65
Crystal Glass ..... " 3 40
Brass King ..... " 3 40
Nickel Plate ..... " 3 40
Enamel King ..... " 3 40

BOBS, PLUMB.

Carpenters'.
No. 2, iron ..... per doz. $0 65
No. 00, " ..... " 1 30
No. 0, " ..... " 1 80
No. 3, lead ..... " 2 90
No. 4, " ..... " 3 40
No. 113, brass plated ..... " 1 10
No. N30, nickel plat'd ..... " 1 30
No. N31, " " " 1 85

BOLTS.

Carriage, Machine, Etc.
Carriage ⅜x6 and sizes smaller and shorter 75%
Carriage, sizes larger and longer than ⅜x6 ..... 65%
Machine, ⅜x4 and sizes smaller and shorter 75%
Machine, sizes larger and longer than ⅜x12 ..... 65%
Machine, longer and larger than ⅜x12 ..... 65%
Elevator ..... 50-10&5%
Plow ..... 60&10%
Stove ..... 80&10&5%
Tire ..... 75&10%
Wagon Box Strap ..... 70&10%

Mortise Door.
Gem, iron 60%
" bronze plated 20%

Barrel.
Cast 60%
Wrought 75%
" Bronzed 50%

Flush.
Wrought ..... 50&10%

Spring.
Wrought ..... 70&10%
" Heavy 70%

Square.
Cast ..... 50&10%
Wrought 75%

BORERS.

Angular.
Miller's Falls ..... per doz. $13 75

Bung.
Each.
Enterprise Mfg. Co.'s No. 1 ..... $1 25
" " " No. 2 ..... 1 75
Less 20%@25%

BOXES.

Mail, No. 1 2 10
Per doz $3.25 4.25 17.50

Miter.
New Langdon ..... 15&5%
Stanley's 30%
Seavey's ..... each $1 50

BRACES.

Barber's ..... 50&10&10@50&10&15%
Fray's Genuine Spofford's 60%
" Nos. 66 to 146 ..... 50%
" No. 0108 ..... $3 50
" No. 0110 ..... 3 75
" No. 08 ..... 2 75
" No. 010 ..... 2 85

BRACKETS.

Hay-Rack.
Wenzelmann's No. 1 per doz. $9 60
" No. 2 " 10 20

Shelf.
Cast Iron, Bronzed 50, 10, 5%
Griffin Wrought Steel ..... 75&10%
" Folding ..... 70&10%

BROILERS.

Wire ..... 70&10%
Crown, Self Basting, No. 90, doz. $3 50

BUCKETS.

Pump Rubber.
Wychoff ..... per gr. $4 75
Cooper ..... " 4 75
Champion ..... " 7 50
Victor ..... " 9 25
Star ..... " 5 00
IXL ..... " 6 75

Well.
Galv'd Qts 10 12 14
Per doz $2.90 $3.25 $3.40
Wooden, top ear, plain, per doz 3 75
" " swivel " 4 85

BUCKS, SAW.

Folding ..... per doz. $2 10

BURRS, RIVETING.

Copper Burrs only ..... 35-10&5%
Tinners' Iron Burrs only 70%

BUTTS.

Cast Iron ..... 65-10&5%
Wrought Brass 15%

Wrought Steel Bright.
Griffin ..... 75&5%
" Ba l Tip ..... 75&10%
" " Bronzed 70%

Wrought Steel, Japanned.
Nos. 731 and 733 ..... 70-10-10&10%

CALIPERS.

Double 78%
Inside and Outside ..... 70&10%
Wing 70%

CALKS.

Logger's Boot.
(Lufkin R. Co.'s), per M $3 75

Toe.
Shoenberger ..... per ℔ 5 c
Bessemer ..... " 4½c
American ..... " 7 c
Swedes ..... " 8½c

CANS.

Cheese Factory.
Ontario Pattern.
Gallons 20 30 40
Each $3.85 $4.50 $5.65

Milk.
Holstein.
Nos. 300 301 302
Gals 5 8 10
Per doz $20.00 $21.00 $23.00
Chicago Pattern.
Nos. 105 108 110
Per doz $16.50 $18.50 $20.50
Iowa Pattern.
Nos. 408 410
Per doz $20.50 $21.50
New Elgin Pattern.
Nos. 705 708 710
Per doz. 20.50 $22.50 $23.50
Burn Pattern.
Nos. 700 701
Gals 8 10
Price $1.85 $2.10

CAN OPENERS.

See Openers.

CAPS, GUN.

See Ammunition.

CARPET STRETCHERS.

See Stretchers.

CARRIERS.

Hay.
Diamond, Regular ..... each $3 50
Diamond, Sling ..... " 6 50
Myers' Imperial ..... " 3 50
" Clover Leaf ..... " 3 65

CARTRIDGES.

See Ammunition.

CASTERS.

Standard—Ball Bearing ..... 50&10%
Bed ..... 60&5%

Common Plate.
Brass Wheel ..... 60&10%
Iron and porcelain wheels, new list ..... 60&5%
Philadelphia Plate, new list 70%
Martin's 60%
Payson's ..... 75&10%

CATCHERS, GRASS.

Carroll s No. C ..... per doz. $4.25
Wildermuth's
Nos. 1 2 3
Per doz $5.00 $5.75 $6.25
Nos 4 5 6
Per doz $6.75 $9.50 $10.00

CHAIN AND CHAINS.

Breast Chains.
Doubleslack ..... doz. pairs $5 75
With Covert snaps ..... " 5 00
With slide ..... " 3 25
Without slide ..... " 2 85

Bright Ox Chains.
5/16 in. $7.25; ⅜ in. $5.45 per 100 lbs.

Cable Coil Chain.
Inch ..... 5/16 ¼ 3/16 ⅛
Per 100 lbs.. $9.80 $7.00 $6.00 $5.20
Inch ..... 7/16 ⅜ ⅜ ¾
Per 100 lbs.. $5.00 $4.90 $4.75 $4.65
Inch ..... ¾ 1 1¼
Per 100 lbs.. $4.55 $4.55 $4.65

Cable Log Chain.
Advance 25c per 100 lb. on Cable Coil

Cow Tie Chains.
American 2 toggle ..... 50&5%
" toggle and snap ... 50&5%
" open & closed ring, 50&5%

Halter Chains.
American, new list ..... 33⅓&5%
German ..... 60&10%
Niagara, new list ..... 40&
Brown's, " ..... 40&5%

Picture Chains.
Light Brass, 3 ft ..... per doz. 50c
Heavy Brass, 3 ft ..... " 75c

Pump Chain.
Galvanized, per 100 lbs $5.00

Safety Chain.
Brass ..... 60&10%

Special Steel Loading Chain.
Inch ..... ¼ 5/16 3/8
Per 100 lbs ... $16.00 $13.50 $12.50

Stretcher Chains.
5/16 in. $8.50; ⅜ in. $7.75 per 100 lbs.

Tie-Out Chains.
Brown's ..... 70&10%

Trace Chains.
Western Standard.
6½—6-2 ..... per pair 30c
6½—8-2 ..... " 34c
6½—8-3 ..... " 33c
6½—10-2 ..... " 38c
7 —8-2 ..... " 38c
7 —10-2 ..... " 42c
7 —10 1 ..... " 48c
7 —10-0 ..... " 60c
Add 2c per pair for Hooks.
Add 2c " for Twist Link.

Wagon Stay Chains.
Inch ..... ¼ 5/16 ⅜
Per 100 lbs ... $6.50 $6.00 $5.50

CHALK, CARPENTERS'.

Blue ..... per gross 75c
Red ..... " 65c
White ..... " 55c
Common White Sch'l Crayon 8c

CHARCOAL

In barrels ..... per bag 85c

CHECKS, DOOR.

Blount 33⅓%
Sargent's 33⅓%

CHIMNEY TOPS.

Iwan's Volcano 50%

CHISELS.

Box,
Inches 10 12 14
Round, per doz. $2 10 $2.25 $2.75
Flat " 2.85 3.60 4.20

Cold.
Good quality ..... per ℔ 10@19c

Socket, Framing and Firmer.
Barton's 20%
Peck, Stow & Wilcox Co 75%
For beveled back, add per doz. .60c

Tanged, Firmer.
With handles ..... 30&5%

Choppers, See Cutters, Meat.

CHUCKS, DRILL.

Goodell's, for Goodell's Screw Drivers ..... per doz. $6 25
Yankee, for Yankee Screw Drivers 5 00

CHURNS.

Anti-Bent Wood, Gal. .. 5 7 10
Each $3.90 $4.60 $4.85
Belle, Barrel 70%
Common Dash, Gal .. 4 5 6
Per doz $7.75 $8.50 $10.50
Hero 70%
Union, Gal 5 7 10
Each $3.65 $3.90 $4.75

CLAMPS.

Adjustable.
Martin's 30%

Carpenters'
Steel Bar 25%

Hose.
Sherman s, brass, ¾ in., per doz. .32c
Double, brass, ¾ in., " 65c

Saw Filers.
Disston's list, $30.00 ..... 30%
Stearn's, No. 0, $3.50; No. 1, $11.50; No. 3, $5.00 doz.
Wentworth's, No. 1 $6.00; No. 3 $7.50

CLAWS, TACK.

Cast, wood hdle ..... per doz. 45@60c
Forged steel, wood hdle " $0.80
Solid Steel ..... " 1.60
Giant ..... " .60

CLEANERS.

Drain.
Iwan's Adjustable 55%
Iwan's Stationary ..... 40&5%

Pot.
Wire ..... per doz. $0.55

Side-walk.
Steel ..... per doz. $7.25
XLCR ..... 65&5%

CLEAVERS.

Family.
Griffin, In 6 7 8
Per doz $5.50 $5.75 $6.25
Royal ..... per doz. 2 25

Butchers.
Beattys, Kitchen 40%

CLEVISES.

Malleable ..... 4½c ℔

CLIPPERS.

Bolt ..... $1.90@$4.75

CLIPS.

Axle ..... 65&5%

Damper.
Standard ..... per doz. 65c
Troy ..... " 38c

Hame ..... " 17c

CLOTH.

Emery.
Triumph ..... 50&10%
B. & A 50%

Hardware Wire—full rolls (100 ft.)
2 to 8 mesh black, per 100 sq. ft. $1 85
9 to 12 " " " 2 15
2 to 8 " galv. " " 3 00
7 and 8 " " " " 4 50

Screen Wire.
12 mesh, painted, per 100 sq. ft. $1 05
14 " " " " 1 50

COCKS AND FAUCETS.

Compression Plain Bibbs ... 60-10-2½%
Lever Bibb Cocks ..... 60&10&5%
Compression Hose Bibbs 60-10%
Telegraph Faucets (new list) ... 50-5%
Racking Cocks (new list) ..... 60&20%
Compression Lock C'ks(n'w list) .. 70%
Andrew's Brass Faucets 70%
Angle Plug Faucets, per doz $0.85
Milk Can Faucets, per doz ... $2.60-4.20
Petroleum Faucets (new list) 70&10%

COLLARS, STOVE PIPE.

Inches 5 6 7
Plain Tin ..... per gro. $1.60 $2.00 $3.00
Japanned Tin " 3.00 3.00 4.25
Lacquered Brass " 2.75 3.25 4.00

COMBS, CURRY.

Nos .. 000 11 15 39 89 108
Per doz. $0.32 .55 1.85 .85 1.10 .75
Nos 299 320 390 532 620 1400
Per doz. $1.00 .80 1.30 1.15 .70 1.35

COMPASSES.

Carpenters' 70%
Pencil—Faber's ..... per doz. $1.00

COPPER—See Metals.

COPPERS.

Soldering.
1 ℔ ..... per ℔ 32c
1½ ℔ .... 29c 2 ℔ .... " 28c
3 ℔ and larger ..... " 26c

CORD.

Picture.
White Wire 85%

Sash.
Baltic Braided Flax ..... per ℔ 20c
Silver Lake, white 7-32 in. " 29c
" " " 8-32 in. " 29c
Keystone ..... 8-32 in. " 26c

CORKSCREWS.

Humason & Beckley 33⅓%
Walker's 33⅓%
Williamson's Regular 50%
Williamson's Forged Worm 50%

COTTERS, SPRING.

All sizes—new list ..... 90&10%

COUPLINGS, HOSE.

Brass ..... per doz. $1.00
Brass Plated ..... " .85

COVERS, WAGON—See Tents.

CRADLES, GRAIN.

Morgan's Grapevine ... per doz. $22.75

CRAYONS—See Chalk.

CROW BARS.

Pinch or Wedge Point, per 100 lbs. $3.25

CUTTERS.

Glass.
Red Devil 45%
Smith & Hemenway Co. 50%
Woodward 40%
Meat.
Enterprise Nos. 5, 10, 12, 22, 32 and 42 ..... 25%
No. 202, list, $1.50 ea. ..... 40&7½%
Universal... Nos. 1 2 3
Per doz. $10.50 $12.50 $17.00
Pipe.
Stanwoods... No. 1 2 3
Each $0.85 $1.50 $4 00
Slaw and Crout.
3-knife Crout ..... per doz. $9 75
1-knife Slaw ..... " 1 65
2-knife " ..... " 2 25
Washer ..... " 7 75

DAMPERS, STOVE PIPE.

Standard ..... 50&10%
American ..... 45&10%

DIES, STOCKS AND

Discount ..... 40&5%
King's, Little Giant 33⅓%

DIGGERS.

Post Hole.
Acme ..... per doz. $8 75
Atlas ..... " 8 50
Eagle ..... " 5 75
Eureka ..... " 7 00
Hercules ..... " 9 75
Iwan's Split Handle .. " 7 00
Iwan's Perfection ..... " 7 75
Iwan's Hercules pattern " 9 00
Ryan's ..... " 17 00
See also Augers—Post Hole.

DOOR CHECKS—See Door.

DOORS, SCREEN.

⅞ in. 4-panel painted, per doz. $7 93
1⅛ in. " " " 9 50
1⅛ in. 3-panel natural pine, fancy ..... per doz. 12 40

DOOR HANGERS—See Hangers.

DRILLS.

Bit Stock ..... 60% & 65&5%
Blacksmith's Twist 60%
Breast.
Common ..... each, $2 25
Millers Falls ..... " 2 10
Hand
Goodell's Automatic.
Nos. 01 03 3 20
Per doz. .$7.75 $12.50 $14.25 $11 00
Goodell's Single Gear per doz. 15 75
Millers' Falls " " " 12 75
" " Double " " 15 25
Reciprocating.
Goodell ..... per doz. $16 50
Bit Stock.
Standard list... 60&5%@60%@10%

DRIVERS, SCREW.

Hurwood ..... 40-10&10%
Standard ..... 65&10%
Triumph ..... 70&5%
Champion 45%
" Pattern ..... 60, 10&5%
Clark's Interchangeable 30%
Edison 60%
Reed's Lightning ..... 45&5%
Goodell's Spiral ..... 50, 10, 5&2½%
Yankee Ratchet 50%
" " Spiral ..... 50&10%
Smith & Hemenway Co. ..... 40&5%

EAVES TROUGH. GALVANIZED.

Territory. L. C. L.
Eastern ..... 80&2½%
Central ..... 75&10&7½%
Southern ..... 75&10
Western ..... 75&10
S. Western ..... 75&2½
Terms, 2% for cash. Factory shipments generally delivered.

See also conductor pipe and elbows.

EGG BEATERS—See Beaters.

ELBOWS.

Adjustable Stove.
Inches 5 6 7
Smooth per doz. $0.70 $0.75 $1.10
Plan'd " 1.80 2.00 2.65
Corrugated Conductor.
Discount ..... 60&10%
Corrugated Stove.
Inches 5 6 7
Smooth, per doz. $0.70 $0.80 $1.30
Pol'd " 1.30 1.40 2.10
Plan'd " 2.00 2.20 3.00
Four-Piece Stove.
Inches 5 6 7
Smooth. per doz. 0 10 $0.52 $0.80
Pol'd " .80 1.00 1.20
Plan'd " .90 1.40 2.40

EMERY CLOTH—See Cloth.

EMERY, TURKISH.

Size ..... 5-lb. pkgs. ¼ kegs, kegs
No. 60 to 150, per lb. 6c 4c 4c
Flour ..... " 5c 3c 3c

ENAMEL, IRON.

Nubian, ½-pt. cans ..... per doz. 1 80
Peerless 1 50
Keystone 1 25

EXTRACTORS, PIG.

See Forceps, Pig.

EYES.

Bright Wire Screw—See Goods, B. W
Drifting Pick ..... 60, 10&5%
Hooks and—
Brass 55%
Iron ..... 65&5%

FASTENERS, STORM SASH

Schroeder's ..... per doz. 85
Sensible ..... " 1 15

FAUCETS—See Cocks.

FILES AND RASPS.

Nicholson's ..... 70&10%
Disston's ..... 75&10%
Challenge ..... 70&10%
Royal ..... 80&10%

FLUE STOPPERS—See Stoppers.

FORCEPS, PIG.

Superior ..... per doz. $4 75
Whisson's Imp ..... " 5 25

FORKS.

These goods are sold net this year.
Barley.
Steel, New List ..... 70&10&5
Wood, 4 tines, per doz. $3.25
Coal, Coke, Cottonseed 60%
Hay,
Batcheller, 2 tine ..... 60&10%
" 3 " 70%
" 4 " ..... 70&7½%
Digging ..... 70&10%
Scoop 40%
Header.
Batcheller, 3 tine ..... 66⅔&5%
" 4 " ..... 65&10%
Manure.
Batcheller, 4 tine ..... 70&5%
Ore 40%
Spading.
Batcheller ..... 80&10%

FRAMES.

Hack Saw.
Union ..... per doz. $5 75
Jenning's ..... " 6 25
Cast ..... " 2 50

FREEZERS, ICE CREAM.

Arctic.
Qts. 1 2 3 4 6
Each $1.10 1.30 1.50 1.80 2.30
Qts. 8 10 12 15
Each $2.95 3.80 4.50 5.20
White Mountain.
20 qt., New Platform ... each $19 10
25 qt., " " " 22 60
25 qt., Sampson Power . " 43 50
40 qt., " " " 58 25

GAUGES.

Butt and Rabbet.
Stanley R. & L. Co.'s ..... 20&10%
Cream Pail.
Fairmont ..... per doz. $3 75
Marking, Mortise, etc. .....
..... 50&10%
Saw.
Atkin's, single, 55c; dbl. 80c per doz
Wire.
Disston's 25%

GIMLETS.

Discount ..... 35@40%

GLASS, WINDOW.

First two brackets ..... 90&20%
Above " " ..... 90&10%

GLASSES, LEVEL.

Stanley R. & L. Co. ..... 50&5%

GLUE.

Bulk.
B Amber ..... per lb. 11 c
A White ..... " 13½c
H. S. Amber ..... " 15½c
Liquid.
Army & Navy 40%
Le Page's—
List "A" 37½%
List "B" 33⅓%
List "C" 25%

GOODS.

Bright Wire ..... 90&10%

GREASE, AXLE.

Wood Boxes.
Diamond ..... per gro. $5 50
Frazer's 9 50
Hub Lightning 5 25
Paragon 6 75
Wood Pails.
Frazer's, 15 lb. 80c; 25 lb. $1.30 each
Hub Lightning, 15 lb. 55c; 25 lb. 70c each.
Tin Cans.
Chamellene Graphite.
1 lb. per gross $9 50
3 lb. per gross 25 00
5 lb. per gross 37 00

GRIDDLES.

Soapstone ..... 40&10%

GRINDSTONES.

Family.
Inches 7 8 9
Per doz. $8.25 9.00 10.50
Loose.
Per ton ..... $20 00@$21 00
Mounted.
Ball Bearing 1 2 3
Each $3.15 3.00 2.85
Common Bearing .. 1 2 3
Each $3.00 2.80 2.65

GUN WADS.
(See Ammunition.)

HAFTS, AWL.

Brad.
Common ..... per doz. $0 19
Peg.
Common ..... " 22
Patent, plain top .... " 47
" leather top... " 52
Sewing.
Common ..... " 22
Patent ..... " 52

HALTERS.

Jute Rope ..... per doz. $0 85
Sisal Rope ..... " 1 85
Web ..... " 1 75
Leather, rope tie ..... " 6 50
" leather tie.... " 8 50

HAMMERS, HANDLED.

Blacksmiths' Hand.
Maydole's ..... 40&10%
Engineers'.
Maydole's ..... 40&10%
Farriers'.
Maydole's ..... 35&5%
Machinists'.
Maydole's ..... 40&10%
Nail.
Triumph 40%
Quaker City ..... per doz. $3 00
Cast ..... " 1 10
Maydole's ..... 30&5%
Riveting.
Maydole's ..... 35&5%
Shoe.
Cast ..... per doz. 75c
Tack.
All Iron ..... per doz. $0 85
Pol'd Iron, Hickory hdl. " 50
Mall. Iron, Inlaid ..... " 1 55
Magnetic 1 2 3
Per doz 70c 80c $1.00
Magazine ..... per doz. $4 75

HAMMERS, HEAVY.

Heavy Hammers and Sledges.
Under 5 lbs 80%
5 lbs. and over ..... 80&10%
Masons'.
Single & Double Face .... 75&10&5%

HANDLES.

Auger.
Common Assorted ... per doz. $0 38
Peck's Adjustable ... " 2 10
Ives' " .... per set 1 35
Axe 60%
Chisel.
Hickory, Tanged Firmer, Assorted, 33c; Large, 38c per doz.
Hickory, Socket Firmer, Assorted 27c; Large, 30c per doz.
Applewood, Tanged Firmer, Assorted, 29c; large, 38c per doz.
Applewood Socket, Firmer, As sorted ..... per doz. 24c
Coal Pick ..... 50&10%
Drifting Pick ..... 50&10%
File, assorted 13c, large 16c per doz.
Hammer.
Adze Eye ..... per doz. 40c
Blacksmiths' ..... per doz. 40c@70c
Machinists' ..... " 45c@70c
Hatchet ..... per doz. 40c
Hay and Manure Fork ..... 40&10%
Hoe and Rake ..... 40&10%
Saw.
Plain ..... per doz. 75c
Varnished ..... " 80c
Screw Driver.
Assorted ..... " 37c
Large ..... " 48c
Shovel and Spade 40%

HANGERS.

Barn Door.
Challenge ..... 60&10%
Peerless ..... 70&10%
Silver Star ..... 60&5%
Storm King ..... 60@5%
World's Best 50%
Wagner's Adjustable ..... 70&10%
Warehouse 60%
Griffin ..... 70&10%
Conductor Pipe.
Griffin ..... 70&10%
Iwan's Perfection 50%
Eave Trough.
Baker's ..... per gro. $2 35
Imperial 20%
Wire 35%
Parlor Door.
Acme ..... per set $3 75
Ives' Improved ..... " 2 50
Lane's Standard ..... " 3 50
" New Model ..... " 3 10
Le Roy Noiseless ..... " 4 00
Richards' ..... 40-10&5%

HASPS.

Hinge, Wrought ..... 50&5%
With Staples—See Staples.

HATCHETS.

Challenge 40%
Blood's ..... 40&10%
Cast Claw ..... per doz. $1 20@1 45
Cast Shingling .... " $0 95@1 20
Germantown 40%
Plumb's ..... 40&5%
Underhill's Star Lath ..... 40&10%

HAY KNIVES.

See Knives.

HAY RACK BRACKETS.

Wenzleman's No. 1 .... per doz. $ 9 60
" No. 2 .... " 10 20

HINGES.

Blind.
Clark's Gravity ... per doz. sets 80c
Parker's 65%
Shepherd's Noiseless, for Wood casing ..... per doz. 1 05
Gate.
Clark's 1 2 3
Hgs & Ltch .... doz. $2.35 2.60 3.65
Hinges only .... " 1.70 1.90
Latches only ... " .70 .75
Knuckle ..... per doz. prs. $6 00
Leed's ..... " sets 6 75
Superior ..... " prs. 9 50
Spring.
American 20%
Bommer Bros. Ball B'g Floor .. 35%
Bommer Bros. Spring Hinges .. 40%
Chicago ..... 25&5%
Columbia Dbl. Acting .... 40&10&5%
Gem 25%
Ideal Detachable .... per gro. $11.10
Matchless 30%
New Idea ..... per gro. $8.40
Oxford 20%
Wrought Iron.
New Lists .....
Griffin.
Light Strap Hinges ..... 65&10&5%
Heavy Strap Hinges ..... 75&10%
Light T Hinges ..... 60&10&7½%
Heavy T Hinges ..... 55&10%
Extra Heavy T Hinges .... 70-10&5%
Cor. Heavy Strap ..... 75&10%
Cor. Ex. Heavy T ..... 70&10&5%
Screw Hook and Strap.
6 to 12 in ..... per 100 lbs. $3 90
14 to 20 in ..... " " 3 65
22 to 36 in ..... " " 3 40
Screw Hook and Eye.
⅝ in ..... per 100 lbs. $6 55
⅞ in ..... " " 7 60
⅛ in ..... " " 9 45

HOES.

Garden ..... 75&5%
Grub.
Extra 70%
Hazel ..... per doz. $5 00
Ladies' and Boys' ..... 75&10%
Mortar 80%
Planter's Eye 62½%
Weed ..... 75&15%

HOLLOW WARE—See Ware

HOOKS.

And Eyes.
Brass ..... 50&10&5%
Iron ..... 65&10%
Awning ..... per gro. $1 80
Belt.
Brown's ..... 70&5%
Jones' ..... 65&5%
Bench.
See Stops, Bench.

Box.
Inch..... 6 8 10 12
Per doz.....$1.35 1.65 1.75 2.30
Humason & Beckley's, per doz. 2 50
(See Goods, Bright Wire.)
Bush.
Common Axe Handle. per doz. $7 00
Chain.
Inch... ¼&5/16 ⅜ 7/16 ½
Per 100 $7.60-8.10 9.75 11.50 12 60
Clothes Line.
Japanned.....per doz. 22c@24c
Galvanized..... " 40c
Coat and Hat.
Cast Iron .....per gro. 72c@$1 50
Gem Wire.....70¢
Conductor.
Malleable.....50&10¢@50&10&5¢
Wrought .....40&10¢@50¢
Corn.
Common, unpolished, per doz. $1 35
" polished.... " 1 80
"Cut Easy"..... " 2 75
Gate.
See Goods, Bright Wire.
Grass.
Common. Nos..... 2 3 1
Per doz.....$1.50 1.60 1.70
German.....per doz. 1 75
Little Giant..... " 3 00
Hammock.
With Plate.....per doz. 50c
With Screw..... " 45c
Lambrequin, or Drapery, per gro. 21c
Picture .....50¢@50&10¢
Potato and Manure.....70&12½¢
Screw.
Brass.....80&20¢
(See Goods, Bright Wire.)
Seat Spring.....per ℔. 5½c

HOOPS, TUB.

Ever Ready .....per case $1 70

HOSE, GARDEN.

3 ply ¾ in. 35 ℔. pressure per ft....4½c
3 " ¾ " 50 " " " 6½c
3 " ½ " 70 " " " 6½c
3 " ¾ " 70 " " " ....8 c
4 " ¾ " 80 " " " ....8 c
4 " ¾ " 80 " " " ... 9½c
6 " ¾ " 125 " " " ...10½c
8 " ¾ " 150 " " " 12c
Cotton ¾ in. 75 ℔. pressure per ft. 6c
" ¾ " 150 " " " 8c

HUSKERS.

Boss.
Nos..... B BB E 200
Per doz..... $2.00 2.00 1.75 .80
Nos..... L PP P K
Per gro..... $5.40 6.00 6.00 10.50
Nos..... 2000 3000 O
Per gro..... $3.50 9.00 24.50
Nos..... 60 59 64 68
Per doz.....$2.15 2.15 .85 1.45
Brinkerhoff's.
Per gro.....$14 40
Clark's
Nos..... 1 63 200 400
Per doz.... $0.40 .75 .75 1.75
Nos..... 200s 40s 3s 4s
Per doz..... $0.85 1.50 1.25 1.25
Nos.....A AB F
Per doz.....$3.00 $4.25 $2.50

IRON.

See Metals—First column.

IRONS.

Curling.
Common.....per doz. 33c@48c
Princess .....per doz. $0 65
Yale..... " 84
Oxford ..... " 1 15
Ruby ..... " 1 50
Tourist, Folding..... " 90
Pinking ..... " 70
Plane.
Wood Bench.....20&5¢
Stanley R. & L. Co. (new list) ...25¢
Sad.
Charcoal .....per doz. $11 00
Common, Polished, per 100 ℔. 3 25
" Nickel plated, " 4 25
Chinese Polishing.....per doz. 7 40
Laundry. No. 1 ..... " 5 75
" No. 2 ..... " 6 25
Mrs. Pott's,
No. 50 J, Enterprise...per set 79c
No. 55 J, " ... " 76c
No. 50 T, " ... " 82c
No. 55 T, " ... " 79c
No. 50, Howells..... " 67c
No. 55, " ..... " 71c
Tailors' Sad.....per ℔. 4½c
" Geese ..... " 4½c
Tuyere.
Single Duck Nest.....per doz. $5 25
Double " " ..... " 6 25
Sutton .....each 2 00

JACKS.

Locomotive.....75&5¢
Wagon.
Oliver.
Nos..... 0 00
Each..... $0.60 $0.85
Standard.
Nos..... 1
Each..... $0.60 1.00
Wilcox.
Nos..... 1 2 3
Each.....$0.85 1.20 2.90

KETTLES.

Brass.....15¢
Cauldron.....45¢
Copper.....per ℔. 27c
Maslin .....70¢
Sugar .....50&5¢

KNIVES.

Beet Topping.
Clyde, 9-in. Scimiter Blade, dz. $3 85
California.....3 40
Cooper's Hoop.....15¢
Corn.
Clipper.....per doz. $1 75
Disston's..... " 2 75
Earle's..... " 3 00
Woodford..... " 2 25
Drawing.
Standard .....70¢
Adjustable.....15¢
Barton's Carpenters'.....10¢
Folding Handle.....25&5¢
Hay.
American, Sickle Edge..doz $10 50
Canton, Sickle Edge..... " 8 25
Heath's ..... " 8 00
Iwan's Sickle Edge..... " 9 50
Iwan's Impv'd Serrated.. " 10 00
Lightn'g, Holt's Genuine " 6 50
Lightning Pattern..... " 6 00
Wadsworth's Sp'r Point " 8 50
Hedge.
Challenge ....per doz. $6 00
Disston's..... " 3 75
Mincing.
Common, Single ..... " 40
" Double ..... " 50
Streeter, 4 Blade..... " 1 30
" 6 Blade..... " 2 00
Putty.
Common..... " 60@1 00
Lander's..... per doz. $1 40@1 75
Scraping.
Beech Handle.....75@1 00
Lander's.....5 25@6 00

KNOBS.

Door.
Mineral .....per doz. $0 73
Porcelain ..... " 83
Jet..... " 83

LADDERS.

Common Long.
Per ft .....9c@14c
Extension.
Per ft 12c
Step.
Common, per ft.....6½c
" with Shelf, add 10c.
Keystone.....15c
Triumph, per ft 20c

LANTERNS.

Bull's Eye Police.
3-in. Flash Light.....per doz.$6 00
2¾-in. Regular..... " 4 00
3-in. Regular..... " 5 00
Tubular.
Buhl..... .....40&10&5¢

LEADERS, CATTLE.

Nos 1 2 3
Per doz.....$0 55 $0 70 $2 75

LEATHER, LACE.

Cut.....40&10¢
Siaes.
Ex. Quality.....per sq. ft. 24c

LEATHERS, PUMP.

Valve and Plunger .....45¢

LIFTERS.

Stove Cover.
Coppered.....per gro. 1 75@3 65
Ideal..... " 5 50
Alaska, Coppered " 4 00
" Nickeled. " 5 00
Transom.
Payson's.....80¢

LINES.

Chalk.
Twisted in 20-ft. hanks.
No..... 4 6 7 8 9
Per gross $1 50 2 00 2 25 2 50 3 00
Twisted in 50-ft. balls.
Nos..... 1 2 3 4
Per doz.....25c 30c 35c 41c
Braided in 20-ft. hanks.
Nos..... 0 1 2 3
Per doz.....22c 25c 31c 35c
Masons', in 100-ft. hanks..doz... 80c
Clothes.
60-ft. Jute.....per doz. $0 80
72-ft. " ..... " 1 00
60-ft. Sisal ..... " 1 30
72-ft. " ..... " 2 00
50-ft. Cotton ..... " 1 00
50-ft. Braided Cotton. " 1 10

LINING, STOVE.

In Bricks.....per crate 42c

MACHINES.

Boring.	Without Augers	With Augers
Angular.....per doz.	3 00	4 40
Upright.... "	2 60	4 00

Leather Riveting.
Chicago, Pomeroy....per doz. $9 00
Excelsior ..... " 2 00
Handy ..... " 2 00
Little Giant..... " 3 00
Pony, Pomeroy..... " 7 20
Washing.
Boss 1 2 5
Per doz.....$55.20 61.80 68.40
Winner.....per doz. 54 00
Keystone ..... " 54 00
Round Wayne..... " 26 50
U. S. Steel..... " 60 00
Advance, f.o.b. Chic'go " 24 50

MAIL BOXES.

See Boxes.

MALLETS.

Carpenters'.
Fibre Head, Small ...per doz. $5 00
" " Medium. " 5 75
" " Large... " 6 75
Round Hickory..... " 1 75
" Lignumvitæ .. " 2 85
Square Hickory..... " 1 75
" Lignumvitæ.. " 3 40
Tinners'.
Applewood ..... " 1 70
Hickory..... " 75@1 15
Hickory Sheet Iron.. " 1 30

MATS.

Door.
National Rigid.....50, 10&5¢
Queen Flexible.....50¢
Stove.
No. 2. .....per gross. $2.25
No. 1. ..... " 2.50
No. 1 Asbestos Toasters, or wire-covered Stove Mats, with handle.....per doz. .75
No. 2 Asbestos Toasters, with ring.....per doz. .55

MATTOCKS.

Warwood .....70&10¢
Extra .....60¢

MAULS.

Iron. lbs. 10 13 16 18 21
Per doz. $3.00 3.60 4.50 5.00 5.75
Wood face, lbs. 10 12 14
Per doz $5.00 5.50 6.00
Wood Choppers'.
Lake Super'r & Oregon Pat.. 80&5¢

MEASURES.

	½ pk.	1 pk.	bu
Galvanized. per dz.	$2.00	$2.75	$3.60
Japanned... "□	1.50	2.20	2.90

METAL.

Babbitt.
Alm .....per lb. 7½c
Best..... " 13 c
Common, No. 4..... " 6½c
Copper Mixed ..... " 19 c
Tony ..... " 9½c
See Metals—In first column.

MICA.

First Quality.....25¢
Second Quality.....35¢

MILLS, COFFEE.

Enterprise .....25¢
Parker.....50¢
Arcade .....50¢

MITRE BOXES.

See boxes.

MOPS.

Erie.....per doz. $3 15
Handled Cotton.
Pounds..... ¾ 1 1¼ 2
Per dozen...$2.00 2.35 2.65 3.25

MOWERS, LAWN.

Ball-Bearing.
Inches..... 14 16 18 20
Each $6.25 6.75 7.25 8.00
Cheap Grades.
Inches..... 12 14 16 18
Each $2.25 2.25 2.35 2.50
Clipper .....50, 10&10¢
Yale.
Inches..... 4 16 18 20
Each.....$3.50 3.75 4.00 4.35
Philadelphia.
All Styles Except A & E 60, 10&10¢
Style A.....50&10¢
Style E, High Wheel..60,10,10&10¢
Drevels.....50¢
All Day.....Net Price

NAILS.

Cut Steel.....rates, $2 10
Horse Shoe.
Ausable .....55&5¢
Capewell .....15¢
Perfect .....55&5¢
Putnam .....20-5¢
Star.....35&5¢
Clover Leaf.....per lb. net, 10½c
Picture.
Brass Heads .....40&10¢
Judd's..... .....60&10¢
Brads.....85&10¢
Furniture .....60&10¢
Wire.
Small Lots.....$2 10
Carload " 2 05
Cement Coated..... 1 85

NAIL PULLERS.

See Pullers.

NAIL SETS.

See Sets.

NETTING, POULTRY.

Galvanized before Weav'g.80&10&5¢
" After Weaving...80&10¢
Cut Pieces.....65&5¢

NIPPERS.

End Cutting.
Stubb's Pattern. Ins. 5½ 6
Per dozen $4.00 $4.25
End and Diagonal Cutting.
Swedish Side.....75¢
Utica Drop Forge & Tool Co...60¢
Hoof.
Heller's .....40&10¢
V. & B.....55-5¢

NOZZLES.

Hose.
Genuine Gem.....per doz. $3 15
Magic..... " 3 15
Mystic..... " 2 65

NUTS, HOT PRESSED.

Square Blank.
In. ¼ 5/16 ⅜ 7/16 ½ ⅝
℔. 9c 7½c 6c 5½c 4½c 4½c 4½c
Square Tapped.
In. ¼ 5/16 ⅜ 7/16 ½ ⅝ ¾
℔. 12c 10c 7½c 6½c 6½c 5½c 5½c
For 5 lb. boxes add ½c per ℔. to above prices.

OILERS.

Chase Pattern
Brass and Copper.....50¢
Zinc .....60¢
Engineers'
Cannon.....55¢
Tin.....per doz. $2.00@$2.25
Machine.
Common .....per doz. $0 50
Copper Plated Steel.. " 85
Malleable Iron.....60, 10&5¢
Japanned..... .....65@75c

OPENERS.

Box.
Inches..... 10 12 14
Flat .per doz $2.85 3.60 4.15
Round " 2.10 2.25 2.75
Can.
Delmonico.....per doz. $1 30
Never Slip..... " 0 65
rate.
V. & B..... " 5 75

OUTFITS, COBBLING.

Home.....per doz. $11 50
Economy..... " 4 90
Fireside..... " 10 50

PADLOCKS.

Standard Wrought .....75&10¢
Champion .....50¢
Eureka.....40, 10&5¢
Yale .....60&5¢

PAILS.

Cream.
14-qt., without Ga....per doz. $2 50
20-qt., " " .... " 3 00
20-qt., with Gauge.... " 3 50
Sap.
10-qt., Galvanized.....per doz. 1 60
12-qt., " ..... " 1 85
Stock
Galvd. qts. 14 16 18 20
Per doz.....$3.50 3.75 4.50 5.00
Water.
Galvanized, qts 10 12 14
Per doz $1 50 1.70 1.95
Wood.
Cable, 2-Hoop..... .per doz. $1 70
" 3-Hoop..... " 1 90
Cedar, 3-Hoop..... " 2 85
Standard, 2-Hoop..... " 1 60
" 3-Hoop..... " 1 80

PANS.

Dripping.....60&5¢
Fry.
Common.....75&10¢
Acme.....70&10¢
Roasting.
Paxton.
Nos..... 1 2 3 4
Per doz.. $4 75 $5.75 $6 50 $7.50
Neverburn.. 4.00 4.50 5.50 6.50
Savory No. 200 .....per doz 8.50

PAPER.

Building.
Plain .....per 100 lbs. $1 10
Tarred..... " 1 20
Tarred Felt..... " 1 65
No. 20, Red Rosin.....pr roll 40
No. 30, Red Rosin ..... " 55
Sand and Emery.
Challenge.....50&10¢
B. & A.....50¢
Wrapping
Drab Floer.....per ℔. 3½c
Rag..... " 2½c

PARERS.

Apple.
Bay State.....per doz. $13 00
Turntable ..... " 6 00
White Mountain .... " 4 75
Reading ..... " 6 50

Potato.
Goodsell's Saratoga 10½ in. doz. 6 50
" " 5 in.. " 5 50

PICKS.

Adze Eye Ore .....70&5%
Drifting and Poll Picks.....70%
Extra Railroad .....70&5%
Surface.....65&5%

PINCERS.

Carpenters', cast steel.

In.	6	8	10	12
Per doz.	$1 80	$2 40	$2 80	$3 50

Blacksmith's 45%
Heller's 40%

PINS.

Clothes.
Common.....per box of 5 gro. $0 52
Hoyt's..... " " 31
U. S..... " " 70

Picket.
Fluted 15 in.....per doz. $0 70
" 21 in..... " 1 60
Spiral ..... " 1 90

PIPE.

Conductor.
Territory.
Eastern.....70&10%
Central.....70&2½%
Southern .....65&10%
Western.....65&10%
Southwestern.....60&12½%

Lead.
Full coils.....per lb. 7½c
Cut " ..... " 7¾c

Stove.

Acme—In.	5	6	7
Smooth, per jt..	8¾c	9¾c	10¾c
Planished " ..	32 c	33 c	43c
Peerless—Smooth.	7¾c	8 c	9¾c
Polished	14½c	15½c	18c
Plan'hed	28 c	31 c	35½c

Made-up—In.	5	6	7
Smooth	7½c	8c	9¾c

7 to 6 in. Smooth Tapers, pr jt 13c
6 in. Smooth T's..... " ..27c
7 to 6 in. Planished Tapers.....45c

Yale Patent Lock Pipe—Stove.

	5"	5½&6"	7"	7 to 6"
	—Cents—			
Battle Ax Blue Smooth Steel.	6	6½	7½	8
Double Lock Peerless Blue Smooth Steel.	6¾	7¼	8½	8¾
Can't Slip Blue Smooth Steel.	6¾	7¼	8½	8¾
Duplex Polish'd Blue Smooth Steel.....	8¾	9½	10½	10¾
Yale Russia Fin	15¾	16½	17½	17¾
Plan'h'd Duplex	29½	30½	37	38
Galvano, Galvanized Iron..	15	16	17	17½

If wanted made up, add per joint for grooved, 1c; riveted, 1½c. Crating made-up pipe extra.

Wrought Iron Gas Pipe
⅛@⅜-in., black.....discount, 60%
⅜@½-in. ..... " 60,10&5%
¾-in. to 6-in.. black... " 70%
7 " 12 " .. " 62½%
⅛@⅜ galvanized " 42%
⅜@½ " " 50%
¾ " 6 " " 57½%
7 " 12 " " 45%

PLANES.

Sargent Iron Bench.....60&10%
Stanley Iron Bench.....25&10&10%

PLANTERS.

Corn.
Monitor.....per doz..$7 75
Triumph..... " .. 6 00
Segment..... " .. 9 00

Potato.
Acme.....per doz..$6 25
Challenge..... " ..11 00
Pingree..... " .. 2 25
Eureka ..... " .. 6 25

PLATES, TIN.

See Metals in Column 1.

PLIERS.

Button's—In.	4½	6	8	10
Per doz.....	$2.40	$2.80	$3.70	$4.60

Button's Pattern.

In.	4½	6	8	10
Per doz.....	$2.00	$2.40	$3.00	$4.00

Cutting.
Bernard's.....30%
Lodi.....50%

End and Diagonal Cutting.
Swedish Side 70%
Utica Drop Forge & Tool Co....50%

Fencing.
Farmers' Choice....per doz ..$8 00
Russell's..... " .. 8 25

Flat and Round Nose.
Bernard's.....30%
German 65%
Lodi.....50%
Paragon.....50%

Gas—In.	6	8	10	12
Per doz...	$2.35	$3.00	$4.00	$5.00

Tinner's.
Hollow.... .....40%
Solid..... each..5½c

PLUMBS AND LEVELS.

Common.....75%@75&10%
Cook's.....40%
Davis' Iron.....35%
Davis' Inclinometer.....15%

Stanley's.

Nos.	00	0	2	3
Per doz..	$4.50	$5.00	$7.35	$8.40
Nos.	30	25	50	35
Per doz.	$12.00	$17.00	$17.00	$12.00

POINTS.

Drive Well Points.....75&10%

POKERS—STOVE.

Wr't Steel, str't or bent, pr doz.$0.55
Wr't Steel, wood hand'ls " " .80
Nickel pl'td, coil hdl's.. " " .65

POKES—ANIMAL.

Brown's, wr't steel, per doz.$5.00@6.00

POLISH.

Metal.
Pride of the Bar.....$1.60
Putz Cream.

Pts.	1-6	½	1
Per doz.....	$0.80	$1.10	$1.65

Pts.	1	2	4	8
Per doz	$2 75	$4.50	$7.50	$12.50

White Silk half pints, per doz.$2.00
White Silk, 6 oz. cans, per doz. 1.00
Wondershine

Pts.	1-6	½	1	2
Per doz.....	$0.70	$1.35	$2.25	$3.00

George William Hoffman.
U. S. Metal Polish Paste, 3 oz. boxes, per doz., 50c; pr. gro ..$4.55
½-lb. boxes, per doz..... 1.20
1-lb. boxes, per doz 2.25
U. S. Liquid, 8 oz. cans, per doz., $1.25; per gro.....12.00
Barkeepers' Friend Metal Polish, per doz., $1.75; per gro..18.00

Shoe.
M. D. C.....per doz. 36c@50c
F. C. O..... " 40c
T. M..... " 55c@$1.75
Imperial.....per gr.....$5.00

Stove.
Black Eagle, 1 lb cans. pr gr..$15.00
Black Silk—
5 lb. pail.....$0 70
Paste, 5 oz. cans....per doz. 75
Paste, ½ lb. cans.... " 1 00
Liquid, ½ pint cans..per doz $1 00
Liquid, 6 oz. cans.... " 75
Steel Range Gloss.... " 1 75
Blackene, 1 lb cans....pr gro. 13 00
Black Jack, ¾ lb cans.. " 9 25
Dixon's Carb. of Iron.. " 5 75
Nickel Plate..... " 4 50

POPPERS, CORN.

Round or Square, 1 qt. per dz, ..$ 95
Square, 1½ qt..... " 1 10
Square, 2 qt..... " 1 25
2 qt. Reversible..... " 1 60

POTS, FIRE.

Bernz.....each $3 85
Clayton & Lambert's, ea..$4 75@6 25
Gate City.....each 6 25
Gem.....ea..$6 75@8 50

POWDER.

See Ammunition.

PRESSES, FRUIT AND JELLY.

Enterprise Manufacturing Co....25%
Henis .....per doz. $2 00

PRIMERS.

See Ammunition.

PRUNERS.

Disston's Pole.....per doz. $6 50
Henry's Improved..... " 75&10%
Water's Improved..... " 80&5%

PULLERS.

Cork.
Daisy.....each $3 10
Phoenix..... " 1 40
Quick and Easy..... " 2 70

Nail.
Giant.....per doz..$10 50
Blackhawk..... " .. 6 50
Morrill's ..... " .. 10 50

Tack—Giant ..... " .. 40

PULLEYS.

Awning—Jap'd.....60%
Clothes Line.....50&10%

Hay Fork.
Iron Wheel, 5 in.....per doz. $1 75
Wood Wheel, 6 in.... " 1 75
Wood Wheel, 6 in., pass knot..... .... " 2 15

Hot House—Jap'd .....50&10%
Screw..... " 60%
Side ..... " .....50&10%

Sash.
Clark's .....per doz $0 36
Common Sense, 2 in .. " 22
" Pattern, 2 in.. " 20
Empire..... " 20
Ideal..... " 20
Steel..... " 25

PUMPS

Pitcher Spout.

Nos.	1	2	3	4
Each	$.93	1.05	1.17	1.45

Spray.
Blizzard.....per doz. $14 50
Cyclone, tin..... " 3 40
" copper ..... " 6 75
Daisy..... " 9 00
Little Giant.....each 2 25

PUNCHES.

Conductors'.
No. 22.....per doz. $2 25
Machine.....per lb. 19

Saddlers'.
Common.....per doz. 60c@70c
Good..... " 72c@84c

PUTTY.

In Bladders.
Strictly pure.....per 100 lbs. 2 35

RAIL.

Barn Door.
Crescent T..... 4½c
Double Flange..... 2½c
Matchless, 1 in..... 3c
Matchless, 1½ in 3½c
Storm King..... 4c
World's Best 7c

Sliding Door.
Painted steel.....per ft. 4½c
Bronzed wrought iron... " 8½c

RAKES.

Coal or *Wood*.....per doz. $5.20

Garden.
Steel ....75&10%
Steel, bow.....75&7½%
Malleable Iron, heavy.....70&10%

Hay.
Wood.....$1.50@$2 00

Lawn—Wood.
XXX .....per doz. 3 00
Automatic ..... " 6 00
Hustler ..... " 3 50
Jumbo, 36 teeth..... " 6 00

RASPS—See Files.

RAZORS.

Bo-ras-ic 50%
Red Devil.....50%
Tree Brand 50%

REGISTERS.

List December 5, 1904.

Black and White Japanned. 70%
Nickel Plated.....70%
Electroplated, Brass, Bronze or Copper.....70%

RINGS

Bull.

Copper.....	2½ in	3 in.
Per doz.....	$1.10	$1.35

Rea's Impro'd Self Piercing

copper, pr d'z.	1.85	
Steel per doz..	.85	.95
Nickel Plated	1.35	...

and Ringers—Hog.
Blair's Rings .....per doz. $0 45
Blair's Ringers..... " 60
Brown's Rings..... " 50
Brown's Ringers..... " 80
Champion Ringers... " 1 60
Hill's Ringers..... " 45
Hill's Ring, boxes..... " 40
Major Rings ..... " 60
Perfect Ringers..... " 80
Wolverine Rings..... " 1 30
Wolverine Ringers... " 60

Fruit Jar.
White.....per lb 30c

Key.
Split, round.....per doz. 17c
Split, square..... " 32c
Ball, Round..... " 32c

RIVETS.

and Burrs.
Copper Belt 40%
Coppered Iron 75%
Tinners' 70%
Hame .....per lb. $0 10
Slotted Clinch.....per doz. 40c@45c
Tubular.
Nos. 1 and 2 assorted sizes, doz. 45c

RIVET SETS.

See Sets.

ROPE.

Cotton.
¼, 5-16-in. Com. on reels..per lb. 11½c
¼, 5-16-in. Com. in coils .. " 12c
¼, 5 16 Imperial in coils . " 21c

Sisal
Rates.....10½c
Premier, rates .. ..per lb. 8½c

Pure Manila.
Rates..... " 13½c
Premier, rates .... " 12½c

RULES.

Boxwood.....60&5%
Ivory .....45&5%

SASH WEIGHTS.

See Weights.

SAWS.

Back.
Atkins'.....40%
Disston's .....30&5%
Jackson's.....30&5%

Butchers'.
Atkins' Nos. 1, 2, 3, 5, 7..... ..40%
Atkins' Nos. 77, 78.....60%
Atkins' No. 79.....50&5%
Disston's.....40&5%

Circular.
Atkins'.....50%
Disston's.....50%
Hiles'.....50&10%

Compass.
Atkins' Nos. 2 & 3 .....40%
Atkins' Nos. 4 & 5.....40&10%
Common.....per doz. $1.35@$1.60
Disston's.....25&7½%

Cross-Cut.
Atkins'.....35&40%
Disston's.....40&10% &50%

Dehorning.
Atkins'.....per doz. $5 50
Disston's..... " 5 75

Hack.
Atkins'.....40%
Disston's.....25%
Keystone.....30%

Hand and Rip.
Atkins'.....40%
Brown's .....20&7½%
Disston's No. 7.....30&10%
Disston's Nos. 8, D8, 12, 76, 112, D100, and 120 (new list) 25&10%
Keystone.....35&5%
Enterprise, hand.....per doz.$5 00
Our Saw, hand..... " 4 00
Our Saw, rip..... " 4 50

Keyhole—Disston's.....30&5%
Atkins' No. 5.....40&10%
Atkins' No. 6.....40%

Kitchen.
Atkins' ....50&10%
Sterling.....25%

One Man 50%

Panel.
Atkins'.....40&10%
Brown's.....30&7½%
Disston's No. 7.....35&5%
Disston's No. D100.....30&5%

Pruning.
Atkins' Nos. 1, 2 & 3.....35%
Atkins' Nos. 5, 6 & 7.....40%
Brown's.....25&7½%
Disston's.....30&5%

Wood.
Atkins'.....40&10%
Common.....per doz. $4 50
Forest Clipper..... " 5 00
Happy Medium..... " 7 00
Perfection ..... " 8 00
Crescent ..... " 5 00

SAW BUCKS—See Bucks.

SAW SETS—See Sets.

SAW TOOLS—See Tools.

SAW FRAMES.

Common, plain.....per doz. $1 25
" painted.... " 1 70

SCALES.

Counter.
Pelouze..... .....40&10%

Platform.
Osgood.....50%

SCOOPS.

Grain.
½ Bu. "Hercules,"..per doz. $13 75
1 " " " 15 00

SCRAPERS.

Box.
Stanley's Adjustable, per doz.$3 00
Triangular..... " 4 00

Cabinet.
Cast Steel..... " 60c@75c
Stanley's No. 80..... " $7 80

Road.

Cubic ft.	7	5	3
Without runners, ea.	$4.00	3.75	3.50
With runners.... "	4.25	4.00	3.75

SCREWS.

Bench.

Iron, in,.....	1	1¼	1½
	$3.25	$3.75	$4.50

Wood, white maple..per doz. $3 50
Hand—Wood.....30%
Hand Rail.....60&10%
Jack .. ..70&10&10%
Lag or Coach—all sizes, gimlet pointed.....75&5%

Saw—Centennial.

Nos.	1	2	3	4	5	6
Per doz.	18c	20c	26c	30c	23c	25c

Wood.
F. H. Bright.....87½&10&5%
R. H. Blued.....85&10%
F. H. Jap'd.....82½&10%
F. H. Brass.....85&10%
R. H. Brass.....80&10%
R. H. Nickel Plated.....80%

SCYTHES.

Clipper, grain.....per doz. $9 50
Clipper, grass ..... " 6 75
Vulcan ..... " 6 50
Honest Dutchman..... " 6 50
Challenge ..... " 8 00

SHAVING SETS.

Smith & Hemenway.....60%

SETS.

Nail.
Round, common.....per doz. $0 33
Square, " ..... " 42
Octagon " ..... " 33
Square, Triumph.... " 90
Cup Point, knurled, pr. doz. 90c@$1.00
Rivet.
Farmers'.. .....per doz. $1 20
Tinners'.....50&10%
Saw
Aiken's Pattern.....per doz. $3 50
Common Lever..... " 1 20
Disston's Monarch .. " 6 50
" X Cut..... " 12 00
German ..... " 1 05
Morrill's Old Style... " 5 00
" Pattern.... " 3 75
Leach's..... " 4 80
Nash's Hand..... " 3 15
" X Cut..... " 4 20
Stillman's Lever..... " 1 30
" X Cut..... " 2 50

SHARPENERS, SKATE.

Diamond.....per doz. $1 60
Smith & Hemenway.....20%

SHAVES, SPOKE.

Iron.....per doz. $1.10@$1.85
Wood..... " 2.75@ 4.75
Bailey's.....50&5%
Goodell's.....15%
Stanley's Universal.....30&5%

SHEARS.

Pruning.
Buckeye, No. 1.....per doz. $5 75
" No. 2..... " 7 40
California Pat. 9 in.. " 3 20
" " 10 in.. " 4 00
Draw Cut, No. 3..... " 13 75
" " No. 4..... " 16 50
Henry's Pat. 0 01 14 012
Per doz.....$1.40 $2.10 $2.90 $2.80
Star.....per doz. $4.00
Sheep—No. BBA.
Inches..... 6 6½ 7
Reg. Grip..... $11.25 $11.50 $12.00
Nar. Grip, doz. 11.00 11.25 12.25
Tinners'—See Snips.

SHEAVES, SLIDING DOOR.

Common.
Inches..... 3 4 5
Per set..... $0.34 $0.42 $0.70
Hatfield's.
Per set..... .75 1.00 1.60

SHELLS—See Ammunition.

SHELLERS, CORN.

Union..... per doz. $6.75

SHIELDS.

Expansion Bolt Shields.....50&10%

SHOES.

Conductor.....60&10%

SHOE POLISH—See Polish.

SHOT—See Ammunition.

SHOVELS AND SPADES.

Coal.
No. 2 Woodford .....per doz. $5 50
No 182..... " 6 00
Ames' new list.....Discount 12½%
Per Doz.
Neverbreak, hollow bck, blk. $15 75
National.... " " " 14 75
Buckeye .... " " " 10 00
Mohawk.... " " " 9 00
Drain.
Iwan's Perfection.....50%
Railroad, Etc.
Black Diamond .....per doz $10 50
Crescent..... " 5 75
Keystone..... " 8 75
Star..... " 4 75
Vaterland..... " 9 50
Hollow Back..... " 4 75
Ames' new list.....Discount 12½%
Snow.
Per doz.....$1.65@$9.00
Alaska Steel.
D Handle.....per doz. $3 50
Long Handle..... " 3 00

SINKS.

Cast Iron.
Painted..... 60%
Enameled, White.....65%
Wrought Steel.
Painted, new list.....40-10&5%

SLEDGES—See Hammers.

SNAPS, HARNESS.

Champion.....33⅓%
German Pattern.....30&5%
Judd's Pattern.....50%

SNATHS.

Double Ring, Bush.....per doz. $5 50
Patent Loop " .... " 5 75
" " Grass..... " 5 25

SNIPS, TINNERS'.

Heinisch's.....40&5%
National.....40&10%

SOLDER—See Metals.

SPRINGS, DOOR.

Perfect.
Nos..... 1 2 3 4
Per doz.... 30c 35c 40c 45c
Reliance.
Per doz.....light $1.25; heavy $2.50
Star.
Per doz..... light 90c; heavy $1.35
Torrey's.....per doz. $1.35
Warner's No..... 11 13
Per doz..... 75c $1.35

SQUARES.

Steel and Iron.....70&10%
(Add for Bluing, $2.50 per doz., net)
Mitre.
Stanley's No. 12.....60%
Try.
Stanley's No. 20, new list...45&10%
" No. 12 and 14.....55%
Try and Bevel.
Stanley's .....55&5%
Try and Miter.
Fox's.....per doz. $5.75
Winterbottom's.....70%

SQUEEZERS, LEMON.

Common Wood.....per doz. $0 70
Porcelain Lined, Wood. " 1 25
Boss, malleable iron.... " 75
Iron Frame, p'rel'n bowl " 2 25
" glass bowl... " 2 50
Little Giant, tin'd iron. " 4 00
Drum, japanned..... " 3 60
Drum, nickel plated .... " 4 50

STAPLES.

Blind.
Barbed.....per ℔ 9½@9½c
Butter Tub..... " 8@8½
Fence—less than carload.
Polished.....per 100 ℔ $2 30
Galvanized..... " 2 60
Netting.
Galvanized..... ...per 100 ℔ 4 00
Wrought.
Wrought Staples, Hasps and Staples, Hasps, Hooks and Staples, and Hooks and Staples.....85&10%
Extra heavy..... .....85%

STEELYARD.

Discount 30%

STONES.

Axe.
Hindostan.....per ℔ 5½@7c
More Grit..... " 9½c
Washita ..... " 17 c
Emery.....60%@60&5%
Oil—Mounted.
Arkansas Hard.....per doz. $23 00
Arkansas Soft..... " 15 50
Hindostan .....per ℔ 6½@6½
Oil—Unmounted.
Arkansas Hard.....per ℔ $2 05
Arkansas Soft..... " 1 10
Lily White..... " 45
Queer Creek..... " 15
Ouachita..... " 38
Washita ..... " 26
Sythe.
Black Diamond.....per gro. $8 00
Crescent..... " 4 25
Gem Corundum..... " 7 50
Green Mountain..... " 4 50
La Moille ..... " 7 00
Quinnebog..... " 5 00
Red End..... " 3 75

STOPS, BENCH.

Hotchkiss'.....per doz. $3 50
Stearns'..... " 4 75

STOPPERS, FLUE.

Common.....per doz. $0 40
Crown ..... " 45
Gem, flat, painted..... " 85
Gem, cor'd, decorated.. " 70
Kirch's..... " 90
Perfect..... " 70@85
Skinner's Common Sense " 80

STOVE PIPE—See Pipe.

STOVE BOARDS—See Boards.

STOVE POLISH—See Polish.

STRAPS.

Scoop.....per doz. prs. $1 85
Skate..... " " 60@70c

STRETCHERS.

Carpet.
Bullard's.....per doz. $3 00
Excelsior..... " 5 25
Malleable Iron..... " 70
Perfection..... " 6 30
King..... " 4 50
Wire.
N. S. Elwood's..... " 6 00
O. S. Elwood's..... " 6 00
Little Giant..... " 5 75
Safety ..... " 10 00
Star Lever..... " 6 25
Star Tackle Block.... 9 50
Warner's..... " 6 25

SWIVELS.

Malleable Iron.....per ℔ 07
Wrought Steel.....per gro. $4 50

TACKS.

American Cut.....90&20%
American Wire.....85&25&10%
Bill Posters Cut.....90&30%
Blued Carpet.....90&10%
Tinned Carpet.....90&10%
Gimp.....90&10%
Upholsters' Cut .....90&33⅓%
Upholsters Wire.....90&10%
Double Pointed.....90&20%
Copper.....per ℔ 32c
Canvas Nails.....75&5%
Clout Nails .....75&5%
Hungarian Nails .....80&5%

TAPES, MEASURING.

Asses' Skin.....40&5%
Bend Leather.. .....20%
Patent Leather.....20%
Lufkin s Steel.....25%
Lufkin's Metallic.....30%

TEE BEVELS—See Bevels.

THERMOMETERS.

Tin Case.....per doz 80c@$1 25
Wood Back..... " $2.00@12 00
Glass..... " 12 00

TIES.

Bale.
Single Loop.....80&10%
All other kinds.....70%
Cow—See "Chains."

TOOLS, SAW.

Atkins' Dexter.....per doz. $4 50
Atkins' Excelsior..... " 6 50
Disston's Universal.....40%
Minature.
Smith & Hemenway 25%

TRAPS.

Fly.
Balloon.....per doz. $1 15
Harper's..... " 1 25
Game.
Newhouse.....40&10%
New Victor.....70&10%
Mole.
Reddick's.....per doz. $6 00
Mouse and Rat.
Wood Choker...per doz. holes $0 10
Tin Choker..... " " 10
Delusion..... .....per doz. 1 00
Marty Rat..... " 6 00
Marty Rat Imitation.. " 3 50
Marty Mouse..... " 3 00
Marty Mouse Imitation " 2 00

TROWELS.

Brick.
Standard.....40%
Brade's.....15&5%
Disston's.....30%
Rose's.....25%
Plasterers.
Standard 40%
Disston's.....25%
W. & McP.....25%

TRUCKS.

Bag.....each $2 75
Handy..... " 1 85
Warehouse.....50&10%
No..... 1 2 3
Half Ironed.... $3.00 $3.85 $5.50
Full Ironed.... 3.45 4.50 6.45

TUBS, WASH.

Standard. Ex.
Nos..... 3 2 1 large
Per doz....$5.00 $6.00 $7.00 $ 9.50
Dowell.
Per doz.... 5.35 6.35 7.00 9.50
Cedar.
Per doz.... 6.10 7.10 7.90 10 80
Indurated.
Per doz.... 8.55 9.45 10.80 13.50
Galvanized.
No..... 1 2 3
Per doz.....$4.85 $5.75 $6.50

TWINE.

Per ℔
3-ply Cotton Wrapping.....25c
4 " " " 25c
4 " " Extra Wrapping.....27c
4 " " " Hvy. Wrapping..25c
4 " " Wrapping on tubes...21c
3 " " " " cones.. 25c
4 " " " " " ...25c
India Hemp, ¼-lb. balls.....17c
" " ½-lb. " 16c
" " ¼-lb. " .....doz. 63c
2-ply " ¼-lb. " 11c
3-ply " ¼-lb. " 10c
Jute Wrapping, ½-lb. balls.....14c
Jute Wool, 1-℔. balls.....8½c
Seine.
Nos..... 9 12 15+
Soft.....per ℔ 26½ 26 25
Med..... " 26½ 26 25
Hard .... " 27 26½ 26
Staging, ¼-lb. ball, size 21.....26½c
" " " " 24.....26c
" " " " 27.....26c
Bagging " " 23c
3-ply "B" in hanks.....18c
4 " "B" " 18c
3 " "A" " 27c
3 " Silver Finish, in hanks....37c
Fodder or Lath.
130-strand 6¾c
200 strand.....7½c

VISES.

Phoenix.....35%
Cheney's.....20%
Parker's Oval Slide.....50, 10&2½%
Sargent's Oval Slide,
In. 2½ 3 3½ 4½
Ea. $1 00 $1 25 $1 65 $2 00
Parker's Parallel.....18&20%
Parker's Victor.....15%
Parker's Combination.....75%
Solid Box.....50%
Adam's Mechanics'.....each 2 50
Williamson Universal.....60%

WARE.

Stove Hollow Ware.
Plain or Unground 60%
Ground Ware.....50&10%
Enameled Ware.....50%
Country Hollow Ware, per 100 lbs $2.75
White Enameled Ware.
Maslin Kettles.....60&10&10&5%
Covered Ware, Tinned and Tu'n'd. 40%
Enameled 50%
Glue Pots, Tinned.....30%
Enameled.....35%
Enameled.
Cherry Blossom and Chrysolite. 50%

WASH BOARDS—See Boards.

WASHERS.

Standard O. G. cast iron...per ℔. 2½c
Wrought iron in bulk per ℔.:
In. ½ ⅝ ¾ ⅞ 1
9c 6½c 5c 4½c 4½c 4½c 3½c
Wrought steel in 5 ℔. boxes, per ℔.
In. ½ ⅝ ¾ ⅞ 1
10c 7c 6c 5½c 5c 5c 4½c

WASHING MACHINES—See Machines.

WEDGES.

Ax.....per doz....30
Galling .....per ℔ 10¾
Saw ..... " 8¾

WEANERS.

Calf.
Fuller's, per doz.....$2 00 to $2 50
Tyler's Safety, per doz 1 85 to 2 40
Carroll's, per doz..... 3 00 to 3 75
Standard, per doz..... 3 00
Hoosier, per doz..... 3 50 to 4 00

WEIGHTS.

Hitching .....per ℔ 2½c
Sash—F.O.B. Chicago...pr ton $24 50

WHEEL BARROWS.

Common Railroad....per doz..$15 50
Heavy " .... " .. 20 00
Panama Steel Tray " .. 35 00
Klondike " " .. 23 50
No C4 Tubular " 43 Bryan..each 4 60
No. C5 " " 45 " " 5 25

WHEELS.

Corundum .....70&10&5%
Emery.....75&5%
Well In. 8 10 12 14
Per doz.....$2.10 $2.50 $3.15 $5.00

WIRE.

Barbed Painted. Galv'd.
Carloads..per 100 lbs..$2.30 $2.60
Less than car " .. 2.35 2.65
Brass.
In coils.....20%
In 1 ℔ spools, new list.....50&10%
Broom—Tinned.....60&10&10&10%
Cable—Same price as Barbed Wire.
Copper.
In coils.....20&10%33⅓%
In 1 ℔ spools, new list .. 50&10%
Fence—Smooth.
Nos. 6 to 9, An'eal'd, pr 100 lbs. $2.10
Nos. 6 to 9, Galvl'd... " 2.40
Hair—New list.....50&10%
Market.
Bright, full bdles.....70&10%
Bright, broken bdles.....70%
Coppered, full bdles 70%
Coppered, broken bdles.....65&10%
Tinned, full bdles.....70&5%
Tinned, broken bdles.....65&10%
Picture—In coils.....80%@80&10%
In 5 ℔. spools .....per ℔...26c
Plain—Small lots..... $2.10
Car lots 2.05
Small spools 5c per hundred higher.

WRENCHES.

Acme Standard.....60%
Alligator .....75&10%
Always Ready.....50&10%
Bemis & Call No. 2 Improved Pipe Wrenches 80%
Coe's Standard.....40&10&5%
Agricultural.....75&10%
Ellis Adjustable.....25%
Malleable "S".....per ℔. 06c
Mallenble..... " 06c
Stillson Pipe 70%
Trimo " .....65&10%

WRINGERS.

No. 22, Guarantee....per doz.$32 00
No. 110, Guarantee.... " 32 00
No. 110, Brighton..... " 22 00
No. 110, Bicycle ..... " 31 00
No. 500, Royal ..... " 32 00
No. 350, Universal.. " 27 00
No. 300, Novelty.... " 27 00
No. 310, Keystone.. " 27 00
No. 100, Rival .... " 22 00
No. 320, Relief..... " 27 00
No. 200, Superior... " 24 00
No. 10, Fresh Water " 18 00
No. 15, Star ..... " 16 00

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CLASSIFIED LIST.

Acetylene Generators

Ideal Epworth Acetylene Co., Johnstown, Pa.

Ash Sifters

Hill Dryer Co., Worcester, Mass

Ammunition

Peters Cartridge Co., Cincinnati, O
Stevens, J Arms & Tool Co., Chicopee, Mass

Bolts

Columbus Bolt Wks., Columbus, O
Star Expansion Bolt Co., New York, N.Y

Brass and Copper

Hungerford, U. T., Brass & Copper Co. New York, N. Y.

Buggies

James & Meyer, Lawrenceburg, Ind.

Cans

American Can Co., Chicago
Stuber & Kuck, Peoria Ill

Carpenter Benches

Grand Rapids Hand Screw Co., Grand Rapids, Mich

Carpenters' Tools

Baker-McMullen Co., Akron, O
Diamond Saw & Stamping Co., Buffalo, N. Y
Duly & Shinn Mfg. Co., New York City
Stanley Rule & Level Co., N. Britain, Ct
Wiebush & Hilger, New York City

Cartridges

Peters Cartridge Co., Cincinnati, O

Cases

American Bolt & Screw Case Co., Dayton, Ohio

Cast Iron Chutes

Chappell Furnace Co., Morenci. Mich

Ceilings—Metal

Berger Mfg. Co., Canton, O
Burton, W. J. Co., Detroit, Mich
Canton Art Metal Co., Canton, O
Edwards Mfg. Co., Cincinnati, Ohio
Friedley & Voshardt. Chicago, Ill
Keighley Met. Ceiling Co. Pittsburg, Pa
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn
Wheeling Corrugat'g Co., Wheeling, W. Va

Chains

Bridgeport Chain Co., Bridgeport, Ct

Chains—Jack and Safety

Hungerford, U. T. Brass & Copper Co., New York

Chimney Tops

Hess-Snyder Co., Massilon, O

Clippers

Hotchkiss, Edward S., Bridgeport, Ct

Clips—Carriage Trimmer's

U. S. Clothes Pin Co., Montpelier, Vt

Clothes Dryers

Hill Dryer Co., Worcester, Mass
Mannen & Esterly, Cleveland, O

Clothes Pins

U. S. Clothes Pin Co., Montpelier, Vt

Coal Hods

Victor Stamping Co., Cleveland, O

Coal and Wood Chutes

Chappell Furnace Co., Morenci, Mich

Coil Springs

Pullman Mfg. Co., Rochester, N.Y

Combination Boilers

Stoltz, F. D., Chicago, Ill

Conductor Hangers

Berger Bros. Co., Philadelphia, Pa
Century Specialty Co., Rochester, N.Y

Conductor Pipe

Berger Mfg. Co., Canton, O
Clark, Quien & Morse, Peoria, Ill
Friedley & Voshardt, Chicago, Ill
Garry Iron & Steel Co., Cleveland, O
La Crosse Steel Roof. Co., La Crosse, Wis
Schoedinger, F. O., Columbus, Ohio
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

Copper and Brass

Hungerford, U. T., Brass & Copper Co, New York, N. Y

Corn Cribs

Denning Wire & Fence Co., Cedar Rapids, Ia

Cornices

Berger Mfg. Co., Canton, O
Canton Mfg. Co., Canton, O
Eller, J. H. & Co., Canton, O
Edwards Mfg. Co., Cincinnati, O
Schoedinger, F. O., Columbus, O
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

Cornice Brakes

Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Wks., Buffalo, N.Y

Cut Offs—Rain Water

Cooney & Geiger, Indianapolis, Ind
La Crosse Steel Roof. Co., La Crosse, Wis

Dampers

Sayre Stamping Co., Sayre, Pa
Howes Co., S. M., Boston, Mass

Door Hangers

Griffin Mfg. Co., Erie, Pa

Duplicators

Daus, F. C. L., Duplicator Co., New York, N.Y

Eaves Trough

Canton Mfg. Co., Canton, O
Eller, J. H. & Co., Canton, O
Garry Iron & Steel Co., Cleveland, O
La Crosse Steel Roof. Co., La Crosse, Wis
Schoedinger, F. O., Columbus, O
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn
Whitacre Mfg Co., J. E., Rockford, Ill

Elbows—Conductor Pipe

Dieckmann, F., Cincinnati,
Wheeling Corrugating Co., Wheeling, W. Va

Elevators

Kimball Bros. Co., Council Bluffs, Ia

Enameled Ware

Briscoe Mfg. Co., Detroit
Lisk Mfg. Co., Canandaigua, N. Y
Reed Mfg. Co., Newark, N. Y
Roseland Can & Spec. Co., Rockford,
Star Enameling and Stamping Co., Pittsburgh, Pa

Enameling and Stamping Plants

Volkammer & Co., Pittsburg

Engineers & Contractors

Volkammer & Co., Pittsburg

Fishing Tackle

Enterprise Mfg. Co., Akron, O

Fencing—Wire

Cyclone Woven Wire Fencing Co. Waukegan, Ill
Denning Wire & Fence Co., Cedar Rapids, Ia
Pittsburgh Steel Co., Pittsburgh, Pa

Fences—Iron

Stewart Iron Works Co., Cincinnati, O

Files

Barnett, G. & H. Co., Philadelphia, Pa
Carver File Wks., Philadelphia, Pa
Disston Henry & Sons, Philadelphia, Pa

Forming Rolls

Bertsch & Co., Cambridge City, Ind
Globe Mch. & Stamp. Co., Cleveland, O
Niagara Mch. & Tool Wks., Buffalo, N.Y

Foundry Supplies

Obermayer, S. Co., Cincinnati, O
Paxson, J. W. Co., Philadelphia, Pa

Freezers—Ice Cream

North Bros. Mfg. Co., Philadelphia, Pa

Furnaces—Hot Air

American Furnace Co., St. Louis, Mo
Beckwith, Estate, P. D. Dowagiac, Mich
Boynton Furn. Co., New York & Chicago
Chappell Furnace Co., Moronci, Mich
Detroit Heating & Lighting Co., Detroit, Mich
Graff Furnace Co., New York and Decatur, Ill
Green Fdy. & Furn. Wks., Des Moines, Ia
Haynes-Langenberg Mfg Co., St. Louis
Henry & Scheible Co., Cleveland, O
Hess, Snyder Co., Massilon, O
Magee Furnace Co., Chicago
Mannen & Esterly Co., Cleveland, O
Meyer Furnace Co., Peoria, Ill
Monroe Fdy. & Furn. Co., Monroe, Mich
Mueller, L. J. Furn. Co., Milwaukee, Wis
Peck-Hammond Co., Cincinnati, O
Pittsburgh Stove & Range Co., Pittsburgh, Pa
Robinson Furnace Co., Chicago
Schwab & Sons Co., Milwaukee, Wis
Thatcher Furnace Co., New York, N.Y
Youngstown Furn. & Supply Co., Youngstown, O

Furnace Pipe and Fittings

Green Fdy. & Furn. Wks., Des Moines, Ia
Meyer F. Bros. & Co., Peoria, Ill
Mueller, L. J. Furn. Co., Milwaukee, Wis

Furnace Rings

Walworth Run Fdry Co., Cleveland, O

Hand Screws

Grand Rapids Hand Screw Co., Grand Rapids, Mich

Hand Punching Machine

American Lock Nut Co., Oregon, Ill

Hangers—Door

Richards Mfg. Co., Aurora, Ill
Safety Door Hanger Co., Ashland, O

Hangers—Garment

Pullman Mfg. Co., Rochester, N.Y

Hardware Jobbers

Clark, Quien & Morse, Peoria
Paxton & Gallagher Co., Omaha

Hardware Specialties

Bishop Hdw. Co., Dowagiac, Mich.
Carver File Co., Philadelphia, Pa
Kees Mfg. Co., Beatrice, Neb
Peck, C. A., Hdw. Co., Berlin, Wis
Pullman Mfg. Co., Rochester, N. Y
Taylor & Boggis Fdy. Co., Cleveland, O

Heaters—Steam and Hot Water

Haynes-Langenberg Mfg. Co., St. Louis
Magee Furnace Co., Chicago
Monroe Fdy. & Furn. Co., Monroe, Mich
Mueller, L. J. Furn. Co., Milwaukee, Wis

Heater Combination

Stolz, F. D., Chicago, Ill

Hinges
Griffin Mfg. Co., Erie, Pa
Kees Mfg. Co., Beatrice, Neb
Lawson Mfg. Co., Chicago, Ill

Hollow Ware
Avery Stamping Co., Cleveland, O
Sperry, D. R. & Co., Batavia, Ill

Ice Cream Freezers
North Bros. Mfg Co., Philadelphia. Pa
Richmond Cedar Wks., Richmond, Va

Industrial Plants
Vollkommer & Co., Pittsburgh, Pa

Iron Fence
Stewart Iron Works, Cincinnati, O

Kitchen Utensils
Avery Stamping Co., Cleveland, O
Lalance & Grosjean Mfg. Co., Chicago

Ladders
Calander, John, St. Paul. Minn

Lanterns
Berger Mfg. Co., Canton, O
Pritchard-Strong Co., Rochester, N. Y

Lawn Mowers
Briscoe Mfg. Co., Detroit, Mich
Clipper Lawn Mower, Dixon, Ill

Levels
Baker-McMillen Co., Akron, O
Stanley Rule & Level Co., New Britain, Ct

Lighting Systems
Ideal Epworth Acetylene Co., Johnstown, Pa.

Lightning Rods
Maher & Sons, Preston, Ia
Security Lightning Rod Co., Burlington. Wis

Mail Boxes
Blick-Williams Co., Indianapolis, Ind
Heise & Brauer, Chicago, Ill
Signal Mail Box Co., Joliet, Ill
Smith Bros. Mfg. Co., Chicago, Ill
Peck, C. A. Hdw. Co., Berlin, Wis

Metal Lath
Wheeling Corrugat'g Co., Wheeling, W. Va

Metal—Perforated
Harrington & King Perforating Co., Chicago, Ill

Metal Polish
Hoffman, Geo. W., Indianapolis, Ind

Metal Shingles
Burton, W. J. Co., Detroit, Mich
Edwards Mfg. Co., Cincinnati, O
Cortright Metal Roofing Co., Philadelphia
Nat'l Sheet Metal Roof. Co., Jersey City

Miters
Whitacre Mfg. Co., J. E., Rockford. Ill

Mop Wringers
Eagle Cooperage Wks., Circleville, O

Nails and Tacks—Copper
Hungerford, U. T., Brass & Copper Co., New York

Nickel Trimmings
Troy Nickel Works, Troy. N.Y

Nuts
American Lock Nut Co., Oregon, Ill
Columbus Bolt Works, Columbus. O
Garland Nut & Rivet Co., Pittsburgh, Pa

Oil Cans
Cooney & Geiger, Indianapolis, Ind

Oars
Strand & Youngquist, Minneapolis

Paints
Dixon, Jos. Crucible Co., Jersey City, N. J
Enterprise Paint Mfg. Co., Chicago
Heath & Milligan, Chicago, Ill

Pencils
Dixon, Jos. Crucible Co., Jersey City, N.J

Perforated Metal
Harrington & King Perforating Co., Chicago, Ill

Photograph Clips
U. S. Clothes Pin Co., Montpelier, Vt

Pistols
Stevens, J. Arms & Tool Co., Chicopee Falls, Mass

Planes
Stanley Rule & Level Co., New Britain, Ct

Pumps
Beckman Bros., Des Moines, Ia
Berger Mfg. Co., Canton, O
Hess-Snyder Co., Massillon, O

Punches
American Lock Nut Co., Oregon, Ill
Bertsch & Co., Cambridge City, Ind
Diener, Geo. W. Mfg. Co., Chicago
Globe Mch. & Stamp. Co., Cleveland, O
Niagara Mch. & Tool Wks., Buffalo, N.Y
Weiss, H. & Co., New York, N.Y

Radiators
Rochester Radiator Co., Rochester N.Y
Sterling Air Radiator Co., Chicago

Ranges
Beckwith, P. D. Estate, Dowagiac, Mich
Born Steel Range Co., Cleveland, O
Co-operative Fdy. Co., Rochester, N.Y
Foster Stove Co., Ironton, O
Kontny, John, Chicago, Ill
Pittsburg Stove & Range Co., Pittsburg, Pa
Van, John, Range Co., Cincinnati, Ohio

Rasps
Disston, Henry & Sons., Philadelphia, Pa

Razors
Gillette Sales Co., Times Bldg., New York City
Smith & Hemenway, Corp., Ltd. New York

Registers
Auer Register Co., New York
Ferro Steel Co., Cleveland, O
Henry & Scheibie Co., Cleveland, O
Independent Steel Register Co., Cleveland, O
Mueller, L. J., Furn. Co., Milwaukee, Wis
Schwab & Sons Co., Milwaukee, Wis

Rifles
Stevens, J. Arms & Tool Co., Chicopee Falls, Mass

Rivets
Hungerford, U. T., Brass & Copper Co., New York. N. Y

Roasters—Poultry
Lisk Mfg Co., Canandiagua, N. Y

Roofing
Johns-Manville, H. W. Roofing Co., New York, N. Y
Kanneberg Roofing & Ceiling Co., Canton, O
Niles Corrugating Co., Niles, O

Roofing—Asphalt
Stowell Mfg. Co., Jersey City, N.J

Roofing—Iron and Steel
Berger Mfg. Co., Canton, O
Burton, W. J. Co., Detroit, Mich
Canton Art Metal Co., Canton, O
Edwards Mfg. Co., Cincinnati, O
Follansbee Bros. Co., Pittsburgh. Pa
Friedley & Voshardt, Chicago, Ill
Garry Iron & Steel Co., Cleveland, O
La Crosse Steel Roof. Co., La Crosse, Wis
Nat'l Sheet Metal Roof. Co., Jersey City
Schoedinger, F. O., Columbus, O
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

Roofing Cement
Connors, Wm. Paint Mfg. Co., Troy, N.Y
Garry Iron & Steel Co., Cleveland, O

Roof Paint
Conners, Wm. Paint Mfg. Co. Troy, N.Y
Dixon, Jos. Crucible Co., Jersey City, N.J
Garry Iron & Steel Co., Cleveland, O

Rules
Lufkin Rule Co., Saginaw, Mich
Stanley Rule & Level Co., New Britain, Ct

Safety Razors
Gillette Sales Co., Times Bldg., New York City

Sanitary Pails
Weber-Kirch Co., Keokuk, Ia

Sash Balances
Pullman Mfg. Co., Rochester, N.Y

Sash Chain, Ribbon & Wire Cord
Pullman Mfg. Co., Rochester, N.Y

Saws and Saw Sets
Atkins, E. C. & Co., Indianapolis, Ind
Diamond Saw & Stamping Co., Buffalo. N. Y
Disston, Henry & Sons, Philadelphia, Pa
Goodell-Pratt, Greenfield, Mass

Scales
Beckman Bros., Des Moines, Ia

Screens—Perforated Metal
Harrington & King Perforating Co., Chicago, Ill

Screen Door Checks
Pullman Mfg. Co., Rochester, N. Y

Screens—Radiator
Harrington & King Perforating Co. Chicago, Ill

Screws
Columbus Bolt Works, Columbus, O

Screw Drivers
North Bros. Mfg. Co. Philadelphia, Pa

Scuttle Openers
Bickelhaupt, G., Skylight Works, New York, N. Y

Seamless Tubing—Brass & Copper
Hungerford, U. T., Brass & Copper Co., New York

Settees—Iron
Stewart Iron Works, Cincinnati, O

Shears—Sheet Metal
Bertsch & Co., Cambridge City, Ind
Davies Automatic Shear Co., New York
Niagara Mch. & Tool Wks., Buffalo, N.Y
Weiss, H. & Co., New York, N.Y

Sheet Metal Specialties
Friedley & Voshardt, Chicago, Ill

Sheets—Black and Galvanized
Berger Mfg. Co., Canton, O
Parkersburg Iron & Steel Co., Parkersburg, W. Va
Wheeling Corrugat'g Co., Wheeling, W. Va

Sheets—Planished
Ward-Dickey Steel Co., Indiana Harbor, Ind

Sheets—Steel
American Sheet & Tin Plate Co. Pittsburgh, Pa
Parkersburg Iron & Steel Co., Parkersburg, W. Va
Ward-Dickey Steel Co., Chicago, Ill

Shelving—Hardware
Heller & Co., Mont Clair, N. J

Shot Guns
Stevens Arms & Tool Co., Chicopee Falls, Mass

Shovels
Avery Stamping Co., Cleveland, O

Sifters
Stuber & Kuck, Peoria, Ill

Skylights
Edwards Mfg. Co., Cincinnati, O

Skylight Gearing
Bickelhaupt, G., Skylight Works, New York. N. Y
Weiss, H. & Co., New York, N.Y

Slate
Auld & Conger Co., Cleveland, O
Johnson, E. J. & Co., New York, N.Y

Soldering Furnaces
Burgess Soldering Furnace Co., Columbus, O
Clayton & Lambert Mfg. Co Detroit
Turner Brass Co., Chicago, Ill

Sporting Goods
Enterprise Mfg. Co., Akron, O

Squares, Machinists'
Disston, Henry & Sons, Philadelphia, Pa
Duby & Shinn, New York City, N.Y
Stanley Rule & Level Co., New Britain, Ct

Stampings—Sheet Metal
Avery Stamping Co., Cleveland, O

Steel Roofing
Garry Iron & Steel Co., Cleveland, O
Niles Corrugating Co., Niles, O
Merchant & Evans Co., Philadelphia, Pa

Stoves and Ranges
Beckwith, P. D. Estate, Dowagiac, Mich
Comstock-Castle Co., Quincy, Ill
Co-operative Fdy. Co., Cleveland, O
Foster Stove Co., Ironton, O
Pittsburgh Stove & Range Co. Pittsburgh, Pa
Ringen Stove Co., St. Louis, Mo

Stoves—Gas
Pittsburgh Stove & Range Co., Pittsburgh, Pa

Stove Cement
Dixon, Jos. Crucible Co., Jersey City, N.J

Stove Clay
Bridgeport Crucible Co., Bridgeport, Ct

Stove Mats
Stuber & Kuck, Peoria, Ill

Stove Pipes
Edwards Mfg. Co., Cincinnati, O
Hemp & Co., St. Louis, Mo
Wheeling Corrugat'g Co., Wheeling, W. Va

Stove Polish
Nickel Plate Stove Polish Co., Chicago

Stove Patterns
Cope Pattern Wks., Detroit, Mich
Shaw & Keller, Cleveland, O
Quincy Pattern Co., Quincy, Ill
Vedder Pattern Works, Troy, N.Y
Weller Pattern Co., Quincy

Stove Pipe Thimbles
Stuber & Kuck, Peoria.

Stove Repairs
Brauer, A. G., St. Louis. Mo
Manufacturers' Stove Repair Co., Chicago

Stove Trimmings
Troy Nickel Works Troy, N.Y

Stove Trucks
Arcade Mfg. Co., Freeport, Ill

Stump Pullers
Monarch Grubber Co., Lone Tree, Iowa

Sugar Kettles
Sperry & Co., Batavia, Ill

Tanks
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

Tapes
Lufkin Rule Co., Saginaw, Mich

Test Tube Holders
U. S. Clothes Pin Co., Montpelier, Vt

Thermometers—Oven
Evans Stamping & Plating Co., Taunton, Mass

Thermostats
Howard Thermo. Co., West Oswego, N. Y

Tin—Perforated
Harrington & King Perforating Co., Chicago, Ill

Tinners' Tools
Lufkin Rule Co., Saginaw, Mich

Tinplate
Canton Art Metal Co., Canton, O
Eller, J. H. & Co. Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Garry Iron & Steel Co., Cleveland, O
McClure Co., Philadelphia, Pa
Merchant & Evans Co., Philadelphia, Pa
Schoedinger, F. O., Columbus, O

Tinware
Lalance & Grosjean Mfg. Co., Chicago
Lisk Mfg. Co., Canandaigua, N. Y
Roseland Can & Spec. Co., Rockford, Ill
Weber-Kirch Co., Keokuk, Ia

Tools, Etc.
Wiebush & Hilger, New York City

Tree Guards—Iron
Stewart Iron Works, Cincinnati, O

Trowels
Atkins & Co., Indianapolis, Ind
Avery Stamping Co., Cleveland, O
Disston, H. & Sons, Philadelphia, Pa
Griffin Mfg. Co., Erie, Pa

Tubing—Brass and Copper
Hungerford, U. T., Brass & Copper Co., New York

Tubs and Pails
Wheeling Corrugat'g Co., Wheeling, W. Va

Valve Regulators
Howard Thermo. Co., West Oswego, N. Y

Vases—Iron Reservoir
Stewart Iron Works, Cincinnati, O

Ventilators
Canton Mfg. Co., Canton, O
Friedley & Voshardt, Chicago, Ill
Globe Ventilator Co., Troy, N.Y
Merchant & Evans Co., Philadelphia, Pa
Powers Bros., Streator, Ill
Pullman Mfg. Co., Rochester, N. Y

Wash Boilers
Reed Mfg. Co., Newark, N. J.

Washing Machines
Benbow-Brammer Mfg. Co., St. Louis, Mo
Paxton & Gallagher Co., Omaha, Neb
Richmond Cedar Wks., Richmond, Va
White Lily Washer Co., Davenport, Ia

Wire Goods
Denning Wire & Fence Co., Cedar Rap'ds Ia
Pittsburgh Steel Co., Pittsburgh, Pa

Wants and Sales

For Yearly subscribers THE AMERICAN ARTISAN will insert under this head advertisements of six lines WITHOUT CHARGE for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in THE AMERICAN ARTISAN.

BUSINESS CHANCES

PATENTS

HUBERT E. PECK, 623 F. St., N. W., Washington, D. C. Consulting Expert in Patent Causes. U. S. and Foreign Patents. Send for leaflet on "Rejected Patent Application."

For Sale—After Nov. 1, 1906, a $4,000 stock of clean hardware, located in North Dakota town. Will bear closest inspection. Address A-34, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 2-3t

For Sale—Hardware stock in town of about 200. Will invoice about $1,500, and doing $6,000 a year. If you can do better do not answer. Address Lock Box 29, Larrabee, Iowa. 2-3t

For Sale—Good clean stock of hardware, stoves, tinware and tin shop in connection in northeastern Kansas; best farming country in state. Honorable competition, town about 600; will sell at a bargain; will pay you to investigate. Reason for selling, poor health. Stock will invoice from $2,800 to $3,500. Address Roy Summerfelt, Morrill, Kans. 2-3t

For Sale—Hardware stock and building in one of the best northern Wisconsin towns, with tin shop in connection; plenty of work the year around; stock and building with fixtures for $7,800; building is 30x80, two stories, solid brick with dwelling above and basement; lot 46x175 ft.; stock and tools invoice about $2,400. Must be sold at once; part payment on time if desired. Address Libal Bros., Lena, Wis. 2-3t

Exchange—Will exchange a good ¼ of Red River Valley land for a clean stock of hardware. Land will bear very close investigation and stand on its merits. Address A-31, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 2-3t

Wanted—To buy hardware stock about September 1st. Will pay cash for $4,000 to $6,000 stock; must be clean, well located and a paying investment for present owner. Address A-33, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 2-3t

For Sale—We are closing out our general stock of hardware, including tinshop. Write at once for particulars. Address Geo. B. Fisch, Muscatine, Iowa. 28-3t

For Sale—Hardware implements and buggy business in central Indiana; will invoice about $4,000; would sell or retain buggies; best room in town; good prices, honorable competition. Must sell on account of sickness; very good chance. Address J. M. S., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 28-3t

Exchange—My 160 acres of good cultivated land near Gettysburg, N. D., and one eight room new dwelling and one new five room house bringing good rent, located here where they are producing oil wells all around, for a stock of hardware, Iowa preferred. Address Box 34, Toledo, Ill. 28-3t

For Sale—Nice clean stock of hardware and implements in one of the best towns in northern Indiana; population 1,500. Stock will invoice $4,000; this is a snap for party who wants a good business. Address J. M. X., care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 27-4t

For Sale—A good clean stock of hardware, stoves, tinware, queensware and good implements; also tinshop in building. Located in a good farming community in eastern Iowa. Will sell or retain implement business. Good reason for selling. Address No. 1, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. ufn

For Sale—A good clean stock of hardware, stoves, tinware, queensware and good implements; also tinshop in building. Located in a good farming community in eastern Iowa. Will sell or retain implement business. Good reason for selling. Address No. 1, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. ufn

For Sale—Stock of hardware and two-story brick building, 22x80 feet, situated in town of 1,000 in East Central Wisconsin; good farming country, dairying, stock raising, potatoes, grain and sugar beets the principal industries; stock invoices about $4,000; if interested it will pay you to investigate. Address W. & J., care THE AMERICAN ARTISAN, Chicago, Ill. ufm

For Sale—A nice clean stock of hardware with tin shop in connection, doing a good business in southern Wisconsin county seat, within a rich farming country. Only two hardware stores in the city; stock of $4,200. This will bear your investigation. Address Lock Box 52, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. ufn

For Sale—Stock of hardware and farm implements in a country town doing a nice business. Tin shop in connection. clean stock and first-class fixtures. Cash deal only considered; reason for selling, poor health of one partner. Address A2, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. ufn

Wanted—Present address of E. C. Mayham, a contractor or carpenter, formerly from Superior, Wis. Will give one year's subscription for The American Artisan for the first one sending same. Address, Rix, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. ufn

TINNERS' TOOLS.

For Sale—Tinner, plumbing and furnace business; the only shop in town of 800 population; stock and tools will invoice about $2,000. Call on or address J. C. Loehr, Lone Tree, Iowa. 28-3t

For Sale—Set of tinners' tools, exxcepting square shears; all nearly new; also stock and supplies; $125 takes the whole outfit. Send for list and invoice. Address Tinner, P. O. Box 225, Fairfield, Ill. 28-3t

For Sale—Set of tinners' tools; list furnished upon inquiry. Will sell at a bargain. Address A. N. Patriarche & Co., Battle Creek, Mich. ufn

For Sale—Cheap or exchange for others, lot of second-hand tinsmith's tools and machines in fair condition. For list and particulars address N. B. Case, Box 169, Havre de Grace, Md. ufn

HELP WANTED.

Help Wanted—Salesmen to handle an exclusive specialty. Liberal commission. Pocket sample. State territory. Address B. S. Co., 859 Rose Bldg., Cleveland, Ohio. 2-3t

Help Wanted—A young man who is sober and industrious, must understand plumbing and heating. A steady job in a good country town; wages, $3.00 per day. Address Albert W. Litchfield, Libertyville, Ill. 2-3t

Help Wanted—At once a good tinner and furnace man. Give references, also wages wanted in first letter. Address C. G. Ballhom, Welcome, Wis. 2-3t

Help Wanted—Man for general tin shop, who can do gas fitting, hang gutters and put on tin roofing and fix well pumps. Address Barrett Hdw. Co., Joliet, Ill. 2-2t

Help Wanted—A good metal pattern fitter on stove and range work, one capable to take charge of shop preferred. Address Belleville Stove & Range Co., Belleville, Ill. 2-3t

Help Wanted—Tinner and furnace man; also some plumbing but don't care to have a man that can wipe joints. Combination man is what I want; steady job and good wages. Address A-28, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. ufn

Help Wanted—Tinners wanted. Address Mohr-Jones Hdw. Co., Racine, Wis. 28-3t

Help Wanted—Foreman, competent and reliable man that understands how to galvanize tubs and pails and can manage help. Give age, experience and salary wanted. Address. Superintendent, Flat 3, 183 14th St., Milwaukee, Wis. 28-3t

Help Wanted—All around tinner and plumber. Address E. A. Wolcott, Algona, Iowa. 28-3t

Help Wanted—A first-class all around tinner, German preferred; must be sober. Address, Geo. A. Bruns, Lake Mills, Wis. ufn

Help Wanted—At once, a good steady, sober tinner and furnace man who can make estimates on and do all kinds of furnace and tin work, slate roofing and steel ceiling work; must be able to figure from plans; must give best of references; state wages in first letter. Address M. Reinhardt's Sons, Lincoln, Ill. 27-3t

Help Wanted—A good all around tinner, one that who can clerk in store when required. A good steady position for the right man. Address J. Meyrs, Bourbon, Ind. 27-3t

Help Wanted—Tinner to take charge of shop, up-to-date on furnace work; also some knowledge of cornice work. Will pay $15.00 per week the year around to man that suits. Best home town in state; good schools. Address Ole Nelson, Mankato, Minn. 27-3t

Help Wanted—Tinner to take charge of shop; married man preferred; temperate and good workman; one that can cut out and put up cornice preferred. Address Geo. A. Brush, 900 Congress Ave., Austin, Texas. 27-3t

Help Wanted—Good tinner and furnace man with some knowledge of plumbing. Wages $2.50 per day; work the year around; only man of good habits need apply. Address C. V. Mashek, Kewaunee, Wis. 27-3t

Wanted—At once, tinner who understands ordinary plumbing, steam and hot water heating, and clerk in store part of time. Steady job for right man, $15 per week. Address W. F. Rehbein, Gray's Lake, Ill. ufn

Wanted—Cornice makers to assemble and erect. Good wages and steady work to experienced men. Address, The Edwards Manufacturing Co., Cincinnati, O. ufn

Wanted—Conductor pipe machine operator; good wages to experienced man. Address, The Edwards Manufacturing Co., Cincinnati, O. ufn

Wanted—Salesmen calling on hardware trade with first-class reference for the states of Montana, Wyoming, New Mexico, Georgia, Mississippi Louisiana and Arkansas. Best known and fast selling staple liner made. Address X Y Z, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. ufn

Wanted—Cornice workers wanted to put together and erect cornice. Need not be cutters. Address The Edwards Manufacturing Co., Cincinnati, O. ufn

Wanted—Spinners wanted to spin sheet copper and zinc work. Must be reliable. Address, The Edwards Manufacturing Co., Cincinnati, O. ufn

Wanted—At once, a good all around tinner who thoroughly understands inside and outside work, pipe fitting and some plumbing. Steady job for the right man the year around. State wages wanted and references in first letter. Address Rud Puchner, Wittenberg, Wis. ufn

Wanted—First-class salesman, by leading furnace and boiler manufacturer. Only men who have had actual experience in warm air, steam and hot water heating wanted. Prefer men who have sold goods to the trade. Excellent opportunity for the right man. Established trade in territory. Address O. B. J., care THE AMERICAN ARTISAN, Chicago. U. F. N.

SITUATIONS WANTED.

Situation Wanted—Position in hardware store and tin shop, by a sober, honest and industrious, married, man of three years' experience in the business. Age 28; best of references. Address A-30, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 2-3t

Situation Wanted—In city by young man with three years' experience in tin, sheet metal and furnace work. Age 23; best of references, wages reasonable. Address Hardware, 206 E. 55th St., Chicago. 2-3t

Situation Wanted—Practical mechanic, now in charge of furnace business, desires a change. Experienced salesman and would take charge of shop. Best of references. If you are willing to pay for a good man, address A-32, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 2-3t

Situation Wanted—Position as stove salesman or hardware clerk, ten years' experience in both lines; best of references furnished. Address Allan Parks, Bloomington, Ill., Gen. Del. 2-1t

SITUATIONS WANTED.

Situation Wanted—By tinner, can do show card writing, window trimming and make mechanical window displays; handy with carpenter tools and paint brush; have done some plumbing, pipe fitting and furnace work. Age 35, married. Address Box 342, Rensselaer, Ind. 2-1t

Situation Wanted—By tinner with knowledge of plumbing and furnace heating. Age 35; married, sober, reliable and not afraid of work; will be ready to make a change about Sept. 1st; steady all year job in Wisconsin only considered, 10 hours a day; $18.00 per week. Address L. B. 472, Columbus, Wis. 28-3t

Situation Wanted—Situation by a thoroughly competent plater; also chemist; will improve working methods in plating and polishing; situation as foreman with complete charge with a reliable firm; have had years of experience in handling help. Strictly sober, best of reference, moderate salary. Address E. P. P., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. ufn

Situation Wanted—Position by tinner of fifteen years' experience; can handle steam, hot water and warm air heating and can do a good respectable job of plumbing. State your best wages, nothing out a steady job considered; strictly sober. Address A-29, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 28-3t

Situation Wanted—By a practical tinner and furnace man with knowledge of ordinary plumbing. Age 35, married, strictly sober and reliable, wages $3.00 per day every working day of the year; steady job wanted, Wisconsin preferred. Address L. B. 472, Columbus Wis. 28-3t

Situation Wanted—A position as hardware clerk by a young married man of experience. Temperate and capable; understand general office work and can furnish best of references. State wages. Address T. A. Vaughn, 1023 W. Decatur St., Decatur, Ill. 27-3t

SPECIAL NOTICES.

WANTED

As salesman in Wisconsin, Minnesota, North and South Dakota, a live man with a knowledge of the furnace business. Permanent position at a good salary. Address, U. S. Register Co., Battle Creek, Mich. 5t-30

SALESMEN

Calling on the furnace trade will learn of a profitable, fast selling side line, by addressing, W. J. Sutherland, Drawer W., Battle Creek, Mich. 5t-30

Special Notice.

Wanted—Traveling Salesman. To sell a well known line of stoves and ranges. Men wanted for Ohio and Minnesota, must be competent and know the trade. Good salary. Address H. W., care of THE AMERICAN ARTISAN, Chicago, Ill.

WANTED

Traveling salesmen to sell an up-to-date line of steel ranges on commission. In replying kindly advise what lines you are handling. Big profits for right party. Address Landay Steel Range Co., St. Louis, Mo. 1t

WANTED

An active salesman to handle a high-class, quick selling line; one acquainted with Hardware House Furnishings and Stove Trade preferred. Address "Opportunity," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 1t.

WANTED—FOREMAN

Man to take charge of our Steel Range Dept. Must be thoroughly competent to handle men and get out patterns. We have a good position open for a first-class man and will pay good salary. Apply to THE WM. RESOR & CO., Cincinnati, O. 3t-5

WANTED

Side Line: Salesman calling on heating trade regularly, to sell registers—commission basis. State territory covered, and how often; can make confidential or secret arrangements with good men. Address, SALES MANAGER, 2488 W. 27th St., Cleveland, Ohio. u. f. n.

WANTED

Wood Pattern Makers on Stove-work. Address "Pattern Maker," care of THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago, Ill. u. f. n.

SITUATION WANTED

Experienced traveling salesman with a No. 1 Chicago and New York City references wants permanent position with enameled ware or stove manufacturer. Can sell any good specialty, salary and expenses or salary, expenses and commission. Indiana, Illinois or the East preferred. Would go to the Coast. Address "B2," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 4t-29

WANTED

A live commission man to handle, in New England States, one of the largest and most complete lines of furnaces and boilers made in this country—a line that is well known in all parts of the United States. Address "Manufacturer," care of THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago.

Capital Wanted

Am going to establish a Stove Repair business in Chicago, selling dealers ORIGINAL Stove Repairs furnished by stove manufacturers. Have had years of experience in Stove Repair business, and see good opening to furnish repairs from original patterns—a good chance for immediate returns on capital invested; references furnished. Address "Capital," care of The American Artisan, Chicago. 5t-26

HARDWARE WANTED

Have a good improved farm in Iowa and one in Illinois to exchange for a stock of hardware or hardware and implements. Address with full particulars B-4, care of The American Artisan, 69 Dearborn St., Chicago. 4t5

WANTED

Tinners, sheetmetal, cornice and skylight workers; open shop; good wages, minimum 35c per hour. Apply Metal Workers' Association, Builders' Exchange, Buffalo, N. Y. u.f.n.

FOR SALE

USED MACHINERY—One lot shears 3' to 8' in length, both hand and power. One lot light and heavy sheet iron rolls. Also lever punches and shears. BERTSCH & CO., Cambridge, Ind. u. f. n.

WANTED

Young man, good at figures and a plain writer, who is familiar with the different parts of a stove, to work in stock room of a Stove Repair House. Address "B-3," care of AMERICAN ARTISAN, 69 Dearborn Street, Chicago. u. f. n.

Hardware Specialties Wanted.

We have an efficient organization for reaching retail hardware trade in the central States; we need another line. An opportunity for live hardware manufacturer. Address W. H., care of THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago.

J. F. LEWIS, Cisco, Ill., Writes: "I cannot get along without The American Artisan"

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A Souvenir Book of Views Showing High Buildings in San Francisco which had their Steel Work Preserved from Rust with
DIXON'S SILICA-GRAPHITE PAINT
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Adjustable Corn Huskers

Single Hook, 8 Positions
Double Hook, 4 Positions

Each makes a practical husking tool. Wider range of adjustment than any other husker. Selling and husking qualities thoroughly tested. Sold by jobbers. Write for circular.

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F. D. Kees, Esq.:
We are in receipt of sample corn huskers. You can send us a couple dozen of these. They look like a good thing.
Yours truly,
CORNELL BROS.

F. D. Kees Mfg. Co.
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Wash Boilers

STAMPED TINWARE
JAPANNED WARE
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OUR PRICES WILL INTEREST YOU.

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The No. 42 Bench; also made without Cabinet

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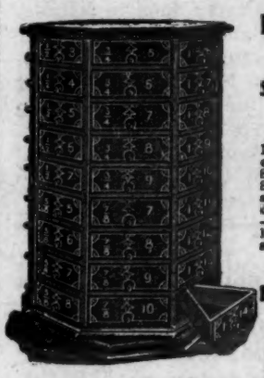
"I am very much pleased with your publication and look forward to its visits with pleasure. The advertisements and all reading matter receive my attention."



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A necessity for Hardware Dealers, Machine Shops, Pattern Shops and in fact anyone who handles small articles—last indefinitely. Send for descriptive booklet.

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Contemplating establishing plants in the West should take advantage of a location on

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of the West and Northwest, and affords the best means of transportation to the markets of the world. For further particulars apply to

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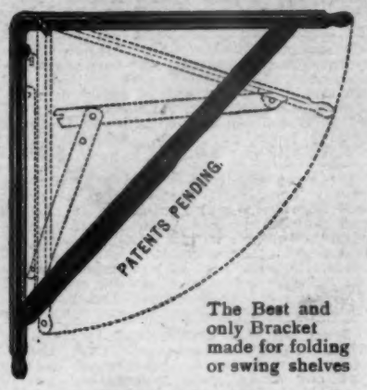
For the Kitchen, Pantry, Dining, Sewing Rooms



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Griffin's Folding Bracket

Takes the place of a table, but it is much better. It can be dropped in a second, taking up no room. Locks automatically. Good for stores and everywhere.
Hardware dealers need them. They are buying heavily for themselves and others. Have you investigated? Write for prices.

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The need of locks may not be a credit to civilization but a Yale lock is a credit to him who uses it and to him *who sells it.*

The genuine Yale lock always has the trade mark

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on the cylinder as shown above. That name is a guarantee of quality in material and workmanship as well as of the latest ideas in lock construction.

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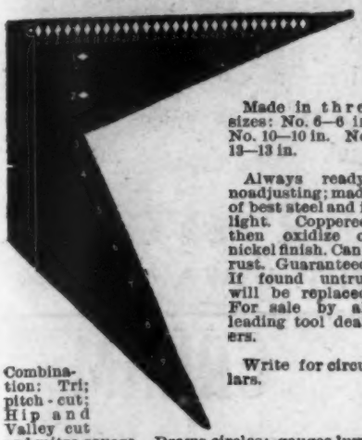
Catalogue Free
HACK SAWS
FAMOUS FOR TEMPER AND CUT
HAND AND MACHINE BLADES OF ALL STANDARD LENGTHS AND WEIGHTS.

The New Universal Square

"NEW STYLE"



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Always ready; noadjusting; made of best steel and is light. Coppered, then oxidize or nickel finish. Can't rust. Guaranteed. If found untrue will be replaced. For sale by all leading tool dealers.

Write for circulars.

Combination: Tri; pitch-cut; Hip and Valley cut and mitre square. Draws circles; gauges lumber; octagonal cuts: laying out mortise and tenons; plumb and level; straight edge; rule scale; and innumerable other purposes. To operate you simply reverse it from side to side. It marks ½-in on one side and ¾ in. on the other.

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Office and Works: 34 E. 29th St.
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THERE'S A SCREW LOOSE

In the shear you are using **UNLESS** you have the
SCREWLESS SPRINGSET SHEAR

THAT is the shear you should buy and the shear you should sell

BECAUSE

1. It never wears loose at the joint.
2. Blades always held together automatically with just the right spring tension.
3. Pivot free to rotate, forming roller bearing.
4. Largely self-sharpening.
5. Handy to take apart.
6. Tension adjustable.
7. **Gives perfect satisfaction to your customers.**

Which kind do you handle, the Screw-Loose, Screw-Set Shear, or the SCREWLESS SPRINGSET SHEAR?

Visiting buyers are invited to inspect our exhibit at the House Furnishing Goods Exhibition, Madison Square Garden (Booth 75), August 6-11.

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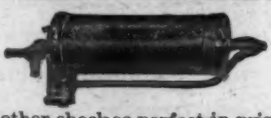

No other check so perfect in principle and material, or so satisfactory as to working and wearing qualities. Polished Brass Cylinder; all the remainder cold steel.

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Popular priced but accurate.

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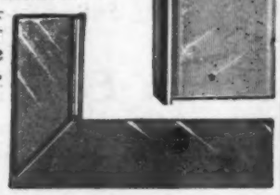
On this line: No. 2 Miter Square 4½-in., 6-in., 8-in.



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Finished in natural color of wood. Hoops and castings painted with Royal Blue Enamel.

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This miter is made absolutely correct, true to shape, size, and bead, and the easiest connecting slip joint. Will save your time and temper. In case your supply house cannot furnish them, send your order direct to the

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The "Minnesota Day Limited" leaves Chicago at 9:20 a. m., arrives St. Paul at 10:00 p.m., arrives Minneapolis 10:45 p.m.

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Passengers on these trains spend the greater part of the day within stone's throw of the picturesque Mississippi river—a cool, comfortable, restful journey.

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Highest Speed, Easiest Running and Most Durable Washer Made

White Lily Washers Wash Lily White

The only Ball Bearing Rotary Washer on the Market

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The Most Perfect Rubber Type of Washer Ever Produced

This complete line sold to one dealer in each town

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The MAJESTIC WASHING MACHINE

Roller bearings. Large fly wheel. Lightest running Washer on the market. People are writing us daily to know where they can buy the Majestic. It is the quickest seller and commands the biggest profit to you of any Washing Machine made. That is why you should sell it. The tub of the **Majestic** is made of selected **Virginia White Cedar**, and will stand the action of water a life time. It is bound with our celebrated **Electric-Welded Wire Hoops**, is steam-tight and easy to operate. Two hundred thousand satisfied customers will testify to all we say.

We are shipping out 2500 Majestics each week. Write us for catalogue and prices.

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The established superiority of the

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above all others makes it a ready and profitable seller. No kick or complaints come from the user of a

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will come to you with less effort the moment you invest a few of them in a trial order for the

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It's noiselessness—easy operation (has all-steel roller bearings)—handsome finish—gold and aluminum bronze castings—help sell it so quickly.

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Builders' Hardware, Dampers and Damper Clips, Oil and Gas Stoves, Furnace Lamps, Molasses Gates, Letter Boxes, Hardware Specialties.

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For all kinds of plants using iron and steel and other metals. The country reached by the

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Small foundry in good town for sale cheap. Refer to Washington File 24,657, Chicago File 16,209

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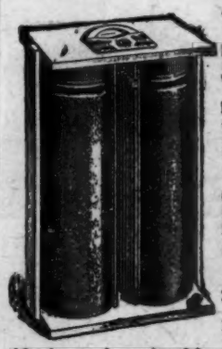
M. A. HAYS, Agt., 225 Dearborn St., Chicago, Ill.



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Russia finish, pat. lock

STOVE PIPE.

It is made of a very high grade of uniform color Blue Polished Steel, and is coated to prevent rusting. Made in all sizes.

Packed twenty-five and fifty joints to crate. For sale by the jobbing Hardware Trade throughout the United States.

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HEMP & CO.
2nd & Chouteau Ave.
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In the event your jobber does not handle this pipe send your inquiries to us.

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For Stoves and Heaters

First-class in wood and Iron.

Vedder Pattern Works, Troy, N.Y.

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IRON & WOOD
STOVE PATTERNS
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The GEO. W. COPE **Stove Pattern Works** Cor. Brush & Woodbridge Streets DETROIT, MICHIGAN.

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DESIGNS and ESTIMATES FURNISHED FOR ALL KINDS OF STOVE PATTERNS
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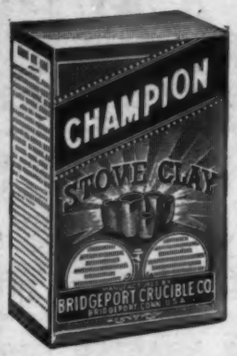

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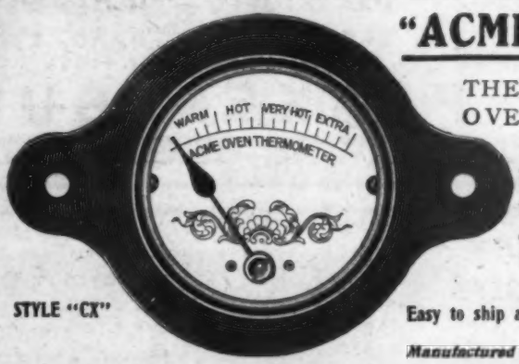

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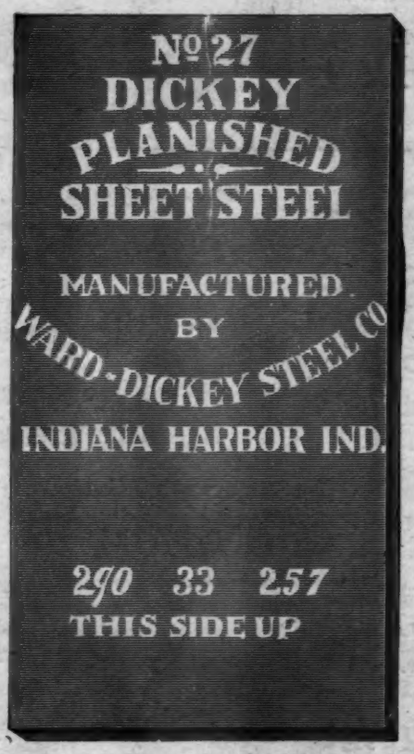

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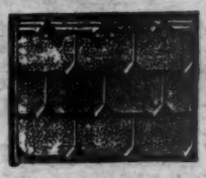

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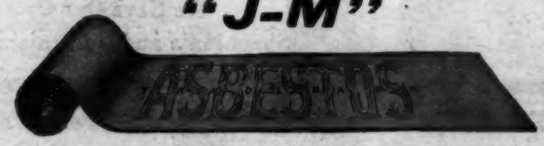

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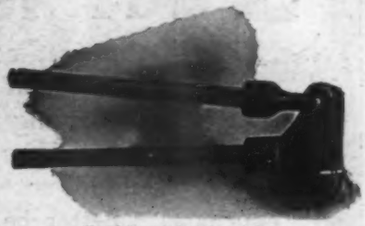

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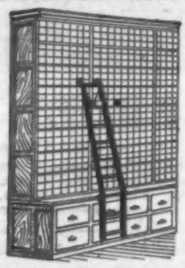

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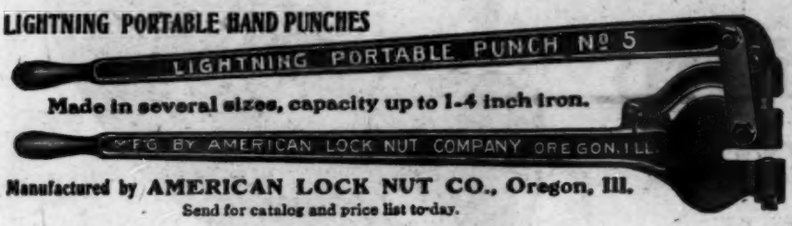

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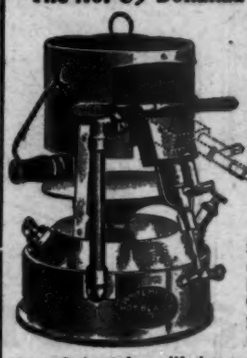
The No. 39 Bonanza Furnace



That is what we give you when buying a No. 39 Furnace for all around work. The tank is made of seamless drawn brass. We make many styles of Furnaces and Torches for kerosene as well as gasoline. Our catalog will give you full particulars. Order through any jobber, or send us $4.50; we will ship direct.

THE TURNER BRASS WORKS,
26 No. Franklin Street. - Chicago

You Buy Gasoline All The While And It Costs Money

No. 31 Torch, $3.00 Net

A Fire Pot or Torch lasts a long time and uses many gallons of gasoline. **The No. 31 Torch uses less gasoline and** produces a hotter, cleaner flame than other makes and has many advantages which add to its value to the user. **Those who know say "We could not afford to use other makes if they cost nothing."** Jobbers sell at factory price. Your money back if you are not pleased.

Clayton & Lambert Mfg. Co.
Detroit, Mich., U. S. A.

ASK YOUR DEALER FOR THE

Sem

Soldering Furnace

AND YOU WILL MAKE NO MISTAKE

Always Ready—No Smoke—No Odor—No Noise—Unexcelled—Unequaled—Unrivaled—Safe—Sure—Durable.

GALVANIZED IRON, BRASS OR COPPER RESERVOIR.
Equipped with Cylindrical Slotted Burner.

MADE ONLY BY

BURGESS SOLDERING FURNACE CO.
COLUMBUS, OHIO, U. S. A.

Blick No. 3 The Best Box
FOR RURAL FREE DELIVERY

$5.88 Per Dozen

BE JUST WITH CUSTOMERS

Sell them Blick No. 3 boxes. They are big ones, 6½x8½x19 inches. Made of heavy galvanized steel. Painted green, the new Government color. Same shape and color as city boxes. Have Positive-Locking Flag Signal, Automatic Latch, Water-Tight Quality. Every box tested, every box right, every box warranted. They will get the business. You better get them. Order now.

$5.88 per Doz.

BLICK-WILLIAMS CO.
INDIANAPOLIS, IND.

THE 20TH CENTURY MAIL BOX

Constructed of No. 20 **Galvanized Steel and will not rust or break.**

Is fitted with spring lock and two keys; also heavy glass panel and brass clip within for owner's name. Two springs outside to hold papers. Slot has spring-hinged cover, making it **absolutely rain-proof.** Painted with best aluminum bronze, like U. S. mail boxes. Size, inside 10 x 5½ x 2¾ inches.

Used for free delivery in cities only.

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No Dust, No Dirt

Pleases everybody

Quick Seller

Order at once to insure prompt delivery.

Send for prices.

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C. De Witt Wagner, 400 Third Ave., Cedar Rapids, Ia., writes: "Please accept my thanks for your help in securing a tinner for me. I had letters from several states which goes to show that The Artisan is read."

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Planet R. F. D. Mail Box

with patented Automatic Flag Signal. Made of 20 gauge galvanized steel. Each box warranted. $5.40 per dozen.

Sanitary Adjustable Strainer Pail

IX Charcoal Tin

12 qt. $4.50

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Jobbers Sell at Factory Prices. Ask Them.

SMITH BROS. MFG. CO.
246-254 E. Kinzie St., CHICAGO, ILL.
Also at INDIANAPOLIS, IND.

The LENOX HOTEL IN BUFFALO

Modern. Highest Grade. Fireproof.

OUR OWN ELECTRIC CARRIAGES, EXCLUSIVELY FOR PATRONS, operate between the Hotel, Depots, Wharves & Business District every few minutes.

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O-RIB-O WARE

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HIGH GRADE

Reversible Hog Scraper

BEST STAMPED STEEL GALVANIZED WITH HARD WOOD HANDLE.

For Quick Work on the Sides the large end is used.
In the Folds of the Skin, and about the Head, Ears and Legs use the small end.

No. 206. List per gross, $33.
Write for Trade Discount

SMITH & HEMENWAY CO.
Mfrs. of Cutlery and Hardware Specialties
108-110 Duane St., New York

Clipper Lawn Mower Co., Dixon, Ill.

Manufacturers of Hand and Pony Mowers, also Marine Gasoline Engines from 2 to 8 horse power.

THE MOWER That will kill all the weeds in your lawns.

If you keep the weeds cut so they do not go to seed, and cut your grass without breaking the small feeders or roots, the grass will become thick and the weeds will disappear. The Clipper will do it. If you wish Clippers, send in your orders.

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Screw Cases, Etc.

Send for Circulars.

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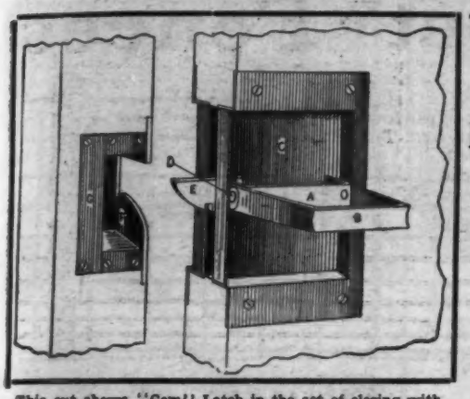
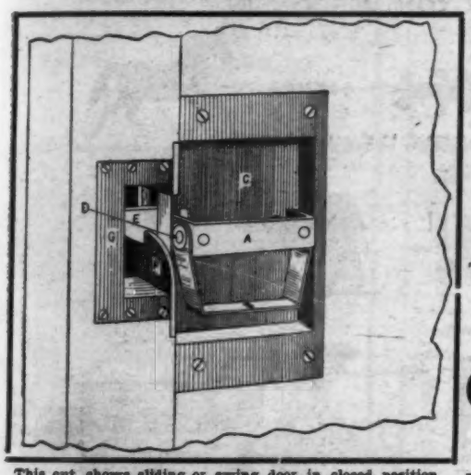


This cut shows "Gem" Latch in the act of closing with a sliding door. Both sides of Latch are exacty alike.

The "Gem" Barn Door Latch



This cut shows sliding or swing door in closed position with handles dropped flush with the door.

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FOR THE

"GEM" Barn Door Latch

For it is the ONLY Latch on the market that is adapted for either sliding or swinging doors.

That allows the door to slide clear back when open and at the same time has large, generous handles that drop down flush.

That comes packed one in a pasteboard box, complete with screws.

There are hundreds of sliding doors in your vicinity without a suitable latch—because there never has been one on the market.

Here is a Profitable Specialty

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All Steel
Heavy Strong Durable

To Dealers $4.75 A Dozen

Delivered in 3-dozen lots. Retails at 60c.

C. A. Peck Hardware and Mfg. Co.

BERLIN - WIS.

It Is Acknowledged

PRICE

3½ in.	$ .50
4 "	.60
4½ "	.65
5 "	.75
6 "	1.00

by the best workmen to be the only way to close the end of an eave trough, as corrugations are **Proof Against Frost.**

Order a set of tools today from any jobber or tinner's supply house.

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Fresh Meat

Is the First Thing. A Steel Spider with the Name

"NEVER-BREAK"

Stamped on the Handle is the next, if you do not want a scorched or burnt Chop or Steak.

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Mfrs Shovels, Spades and Scoops of Highest Grade.

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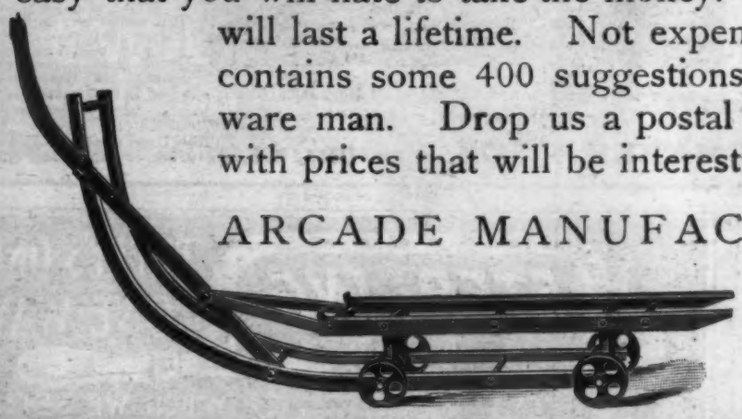

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THE AMERICAN ARTISAN.

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Yours truly, E. J. KETCHUM, West Duluth, Minn.

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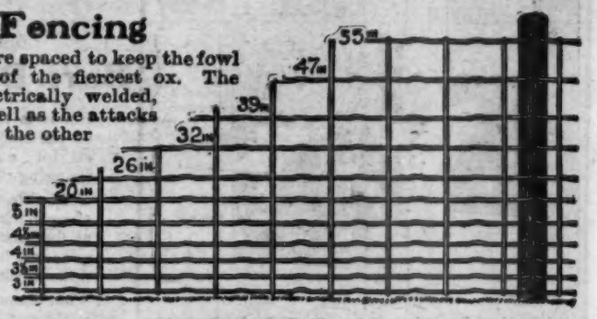
For Field, Farm and Hog Fencing

are made to meet all the demands they are subject to. They are spaced to keep the fowl within their limits and are calculated to stand the strength of the fiercest ox. The wires and rods are of the best steel the market affords, electrically welded, and are galvanized so that they can resist the elements as well as the attacks of the curbed in animals. They are just as meritorious as all the other



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of Wire Rods, Annealed, Bright and Galvanized Smooth Wire, Barb Wire, Twisted Cable Wire, Fence Staples, Wire Nails, Steel Hoops, Bands and Cotton Ties. Dealers save money on goods.

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The Pittsburgh Steel Co., Pittsburgh, Pa.

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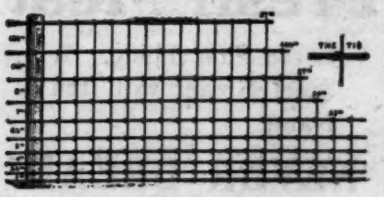

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Both Single and Double Strand.

JUMBO POULTRY turns everything.
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Lawn and Cemetery Fence, Barb Wire, etc.

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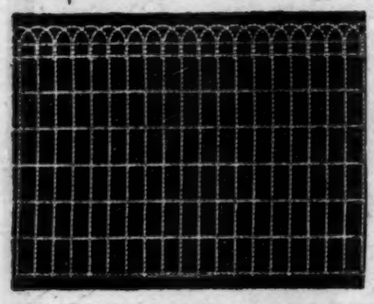

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Many dealers handling.
We want more.

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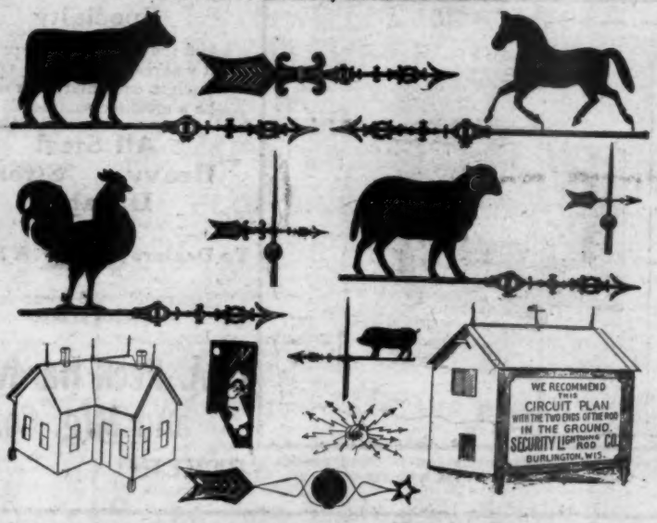

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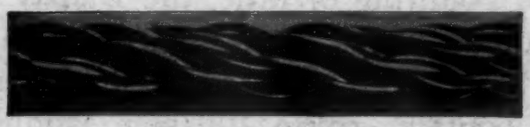

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Pure Copper Cable

If it wasn't why do we give a $500.00 guarantee. We have got the best and heaviest Cable and Fixtures on the market, and our prices are far below any other firm now making an inferior cable. There is money in the business for you.

We want an agency in every county, send for catalog and prices to

MAHER & SON, Preston, Ia. The firm that cut down the price of Lightning Rods.

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THAT IS

DOES STRAIGHT TRUE QUICK WORK, LASTS LONGER.

YOUR ORDER SOLICITED.

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Hardware Dealers Make Big Profits Selling Stewarts FAMOUS IRON FENCE

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Iron Reservoir Vases, Lawn Settees, Iron Tree Guards, Hitch Posts, Fountains, Etc.

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The Most Wonderful Selling Razor in the World

IT PLEASES EVERY PATRON, WHO, IN TURN, BRINGS A NEW CUSTOMER.

"THE GILLETTE" sales are permanent, it turns orders to money and profits.

"THE GILLETTE" blade is of fine, flexible, wafer steel that shaves. 20 to 40 quick and comfortable shaves from each blade.

12 Blades 24 Keen Edges

Triple silver-plated set with 12 blades,	$ 5.00
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Standard combination set with shaving brush and soap in triple silver-plated holders,	7.50
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Standard packages of 10 blades with 20 sharp edges, for sale by all dealers, at the uniform price of 50 cents.

No Blades Exchanged or Resharpened

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never rust, smut, split, or blow off the line.
Any special clips made to order.

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Made from very thick metal, without Stay Bolts, joint packed in such a manner as to never need repacking. A little higher priced than some, but they are safe and tight.

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Standard Quality and Workmanship Guaranteed. Prompt Shipment. Prices Right.

Simple in Design. Elegant in Finish.

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Write us for Prices, Terms, Etc.

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The Most Perfect Roaster in the World.

IMPERIAL GRAY ENAMEL

Warranted for Ten Years.

For Roasting Meats, Game, Poultry, and Baking Bread, Beans, Etc., Etc.

Its Simplicity, Durability and Economy Appeal to Every Lover of the Culinary Art.

SIZES

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Size, 10x15, 7 in. high For 6-pound Roast.	Size, 10x16, 7½ in. high For 12-pound Roast.	Size, 11x17, 8 in. high For 16-pound Roast.	Size, 12x18, 8½ in. high For 20-pound Roast.

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We remodel Antiquated Plants and make them profitable.

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Do you want to sell a White Lead which is put up in Steel Kegs?

Do you want to be the only dealer in your city to handle an article of this kind?

If so, write at once to

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Do all the prosperous men in your town have prosperous looking places of business?

Our metal store fronts and steel ceilings impart to a place of business

the appearance of success that begets success

No matter whether the building is brick or wood, big or little, old or new, or not yet built. It makes no difference what it is used for. We can make a front or a ceiling to FIT the building and the pocketbook of the owner.

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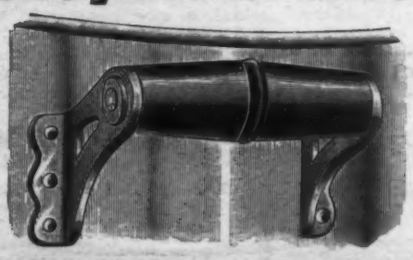

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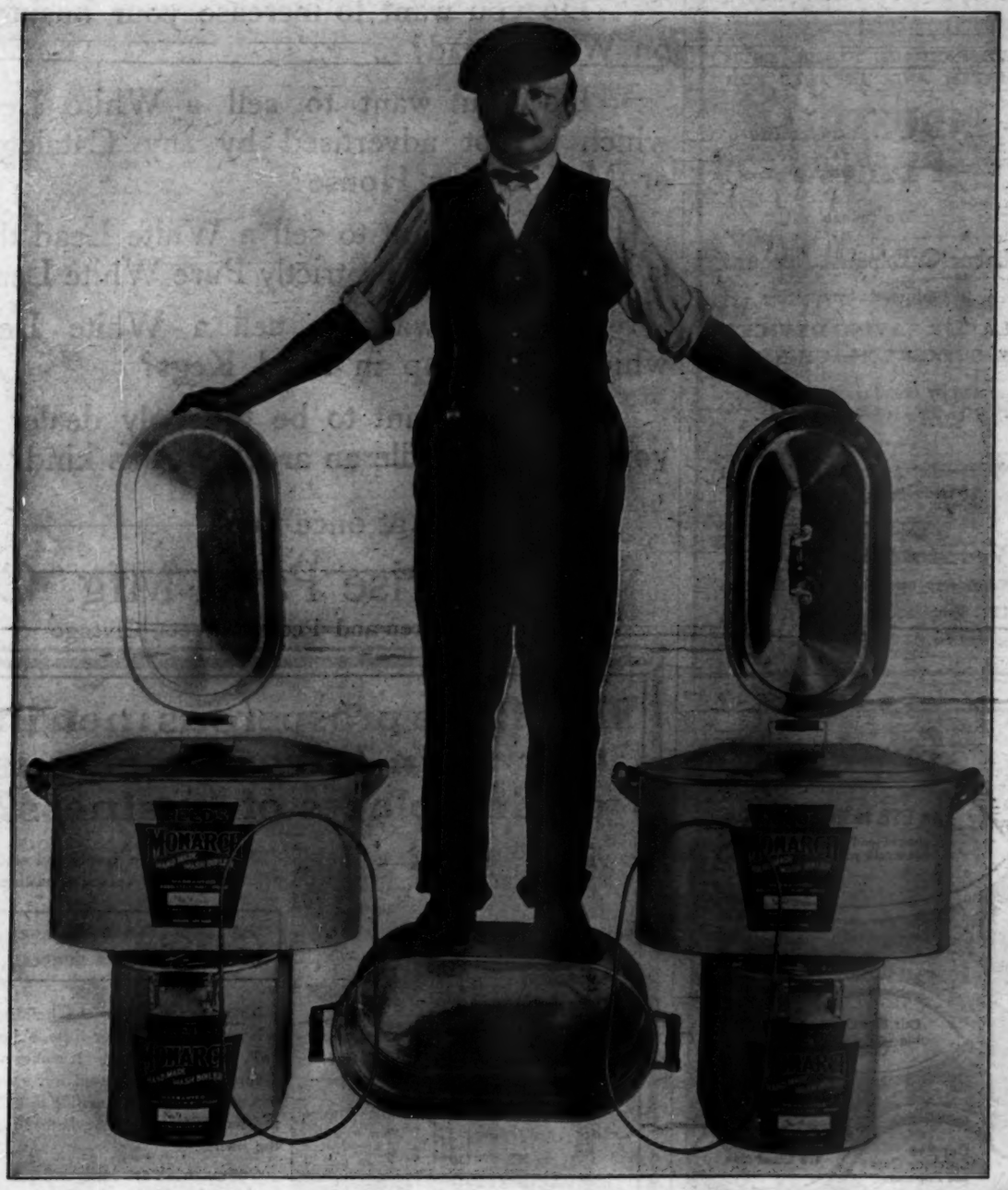

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HIGH AMATEUR AVERAGE,	Columbus, O., May 8-11,	R. S. Rhoads,	555 out of 600
DuPONT TROPHY,	Columbus, O., May 8-11,	R. S. Rhoads,	96 out of 100
SMITH TROPHY,	Bloomington, Ill. May 24,	H. W. Cadwallader,	24 out of 25
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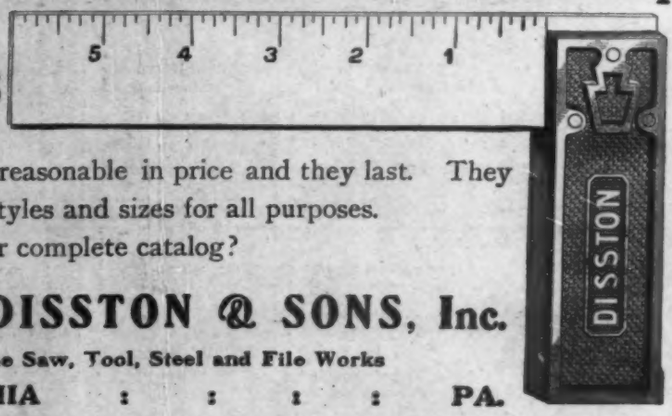

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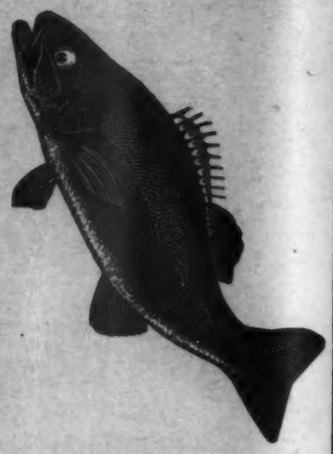

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